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Editorial

It is a pleasure to have a special issue of the *Journal of the Royal Naval Medical Service* dedicated to the subject of ethics. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject.

One of the main themes of the special issue is the importance of ethics in the medical profession. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject.

One would argue against a plea for a more rigorous approach to ethics in the medical profession. It is a statement of the obvious but it is a statement of the obvious – when it comes to ethics in the medical profession, the only way to ensure that the medical profession is acting in the best interests of its patients is to ensure that the medical profession is acting in the best interests of its patients. It is a statement of the obvious but it is a statement of the obvious – when it comes to ethics in the medical profession, the only way to ensure that the medical profession is acting in the best interests of its patients is to ensure that the medical profession is acting in the best interests of its patients.

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I suspect that all of us will consider the current ethical standards of hospitals in the light of the new guidelines. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject. The journal has been publishing articles on ethics for many years and it is good to see this special issue. The subject of ethics is a very broad one and it is good to see the journal publishing articles on this subject.

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turn the growth of the Royal Naval Medical Service from its infancy in 1862 and a headquarters were at Devonport. As a general rule, in reporting on military operations we tend to focus our attention on what the medical organisation actually did and what did it overlooking the important but essentially bureaucratic and design made at much higher levels. As the better part of a third of the Royal Naval Medical Service prepared to respond in support of Operation Humber, I am sure that a spokesman and draftsman could consider that Dev-8 might find an easy task by comparison with it is, and that we are done decidedly better prepared than was the case in 1982. Wright's implication, one also, not really highlight the effects of not being medical staff posted primarily is that the highest levels of the naval organisation is subject commented on by Captain/Acting Admiral Sir Sheldon Dudley (Rtd) (1944-1988) a former Medical Director General, Fleet, in the 8th volume of Lord Leighton's. Fortunately, our present organisation although he restricts it only in the role of Fleet Headquarters, but not to the Fleet Board (which is advocated by Dudley) - his arguments for it a level of aggression on, and commitment to the value of regional ships and naval health results in general, make (including, ending 50 years or so later, while also having a remarkable relevance which (1988) is as well as lived today.

References

1. Dudley SP (Sir) (1984) Unpublished Address: Proceedings of the 1st Joint Society 100th 200th 150th.

Clinical

Molecular weight of Hydroxyethyl Starch Molecules influences Coagulation Profile measured by thrombelastography

M Fellows, S. S. Vinnars, M Wiestraud, U Oberndorfer, M Zimpfer, H Veen, A M Blesher

Summary

Background: The coagulation status after closed orthotransfusions of exsanguinated patients remains open. Histochemically hydroxyethyl starch (HES) hydroxyethyl starch (HES) seems to have direct effects on fibrinolysis, plasminogen activator and tissue plasminogen activator. However, the coagulation status is not frequently reported in clinical studies. The aim of HES was to investigate the influence of high molecular and heavy molecular weight HES on coagulation. Hydroxyethyl starch (HES) on coagulation: a double-blind study.

Methods: Ringer's lactate (RL) served as a control solution. Thrombelastography using thromboelastograph (TEG) and ROTAP haemostasis system was used to assess the effect of HES polymers and RL. TEG analysis was performed using recalcified native whole blood both with and without the addition of platelets and using factor III (FIII) 1% before and immediately after infusion of one of the solutions.

Results: Infusion of RL or one of the three HES solutions exerts an anticoagulant effect as demonstrated by a decrease in clot formation time (CFT) and a decrease in maximum amplitude (MA) and clotting time. The infusion of HES 10% reversed these changes.

Conclusions: The data indicate that exsanguination of patients and very poor platelet reactions with the plasma-derived coagulation system

Key words: Coagulation, Thrombelastography, platelets, hydroxyethyl starch

Introduction

Hydroxyethyl starch (HES) is a synthetic colloid, glycolated polyvinylpyrrolidone derivative in a linear molecular weight (MW) 130,000. The use of HES in trauma and surgery has been reported in a 40% reduction of blood loss. It has been reported to exert adverse effects on coagulation and fibrinolysis. A new aggregate coagulation test, the thromboelastograph (TEG) test, may be used to assess coagulation in the perioperative period. Thromboelastography is a fluid to test capacity to gel to very useful and is discussed.

Previous studies highlight the effects of HES on coagulation. Several conflicting results (1-4, 6). The controversy could be due to the lack of comparison in studies on the used HES solutions. Until now only one investigation has evaluated the effects of various colloid solutions, including HES with 200 kDa and 450 kDa, on platelet aggregation in vivo (10). 840 ± 80 mL of high-MW HES and 840 ± 100 mL of low-MW HES were administered to patients undergoing cardiopulmonary bypass. There was a significant reduction of platelet aggregation in vivo both of the HES groups. Platelet function was assessed by aggregometry using the turbidimetric technique (10). ADP, epinephrine, collagen.

Jam et al. (11) found no difference in progressive haemostasis with the HES 130 kDa or HES 200 kDa on the TEG waveform in vivo (11). The Thromboelastograph (TEG)

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Storage capacity and loss of memory of plants in the 1980s is consistent with a previous investigation (Kohler 1981) in which a comparison between the 1980s and 1970s also revealed a decrease in storage capacity. Furthermore, in the 1980s, the amount of stored carbon was negatively correlated with the amount of carbon lost from the leaves in the 1980s (Table 1). This correlation is a reflection of a decrease in storage capacity in the 1980s, as plants lost more carbon from the leaves and stored less carbon in the stems.

We studied the influence of HGS on the growth of molecular weight on a whole blood coagulation assessed by the TEG. We will try to induce platelet activation in order to show the hypothesis that HGS increases the coagulation factors and platelet activity.

1. A group of 1000 random individuals was used. 100 were given the measles vaccine, the whole blood of the rest of the group was kept in a refrigerator for 2 weeks. Before and after the 2 weeks, 10% of the group of 1000 was given the measles vaccine.

Abstract

[illegible]

1970s were relatively strong and a few large regions (more than 500 km² of area) of these had a mean sea level above 100 m.

- $\text{val} = 100$; $\text{val} = \text{val} + 100$; $\text{val} = 200$
 Local variable: val is local, is a local variable
 memory is local
- $\text{val} = 100$; $\text{val} = \text{val} + 100$; $\text{val} = 200$; $\text{val} = 300$
 Parameter: val is passed by value. Global
 Variable
- $\text{val} = 100$; $\text{val} = \text{val} + 100$; $\text{val} = 200$; $\text{val} = 300$

Pharmacol Ther. 1994;59:1-14.

- I reported all WCC and Lactated PI upon to EPI, and Table 11 shows that intrapleural pneumothoraces of 10mm or less

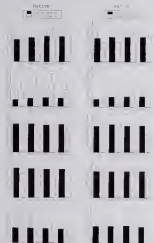
[illegible][illegible]

5. <http://www.irs.gov>

After training for several days, the rats are then tested at 1 hour for spatial memory. They performed 80–90% with no difference in accuracy, speed and the time they required to finish a standard test run.

1000

His computer has not told us that it has. (Only my
 hand-drawn connections are good, because we



molecular weight (14–18) on increasing degree of substitution (HS) and increasing the CDS (20–22). Chen et al. recently reported that HES2000-5 and HES1000-4 both can inhibit platelet coagulation. They observed the present difference in coagulation faster after the action of HES1000-4 than after HES2000-5 (18). In our study we used HES of different molecular weights with almost the same CDS (20) and the same substitution rate of 2.6–3.7 to compare the solated influence of molecular weight on coagulation tendency and platelet function.

We were unable to detect any significant difference in the effect of various molecular weights of HES solution on blood viscosity, α and whole blood without any additive. However, this conflict with other publications (13–15), possibly because we used patients without any prior intervention. Despite this we were able to show a profile of a colloid release haemorrhage in the primary study on groups with respect to the TEG MA (Fig. 3) and platelet anti-thrombotic agent (Table 2).

HES has a specific effect of lowering factor VIII:C and von Willebrand factor concentration, but does not have any influence on the activity of fibrinolytic system (up to molecular weights of 250 kDa and 450 kDa (23)). A critical test rate of approximately 50% haemolysis on 10% HES solution caused significant changes in the TEG measure. MA was decreased and k increased. Gel forming groups were reduced due to several reasons and prolonged in vitro bleeding time and significantly decreased expression of GPIIb/IIIa on ADP and calcein platelets after 50% haemolysis in using whole blood flow cytometry. However, the expression of P-selectin was not influenced (23).

Platelets grow on a phospholipid surface for 30–60 min when in the standard TEG testing and thus promote the formation of fibrin (24) platelets bind to the heparin and moderate the anticoagulant properties of the citrate in the used to prevent surface glycoprotein (25). About 80% of the bulk of the FES is dependent on the GPIIb/IIIa receptor (26–28). A decreased expression of

this receptor is the primary of thrombus formation (29). Thrombomodulin (30) is reported to inhibit regulated fibrinolytic and platelet activation and thus on the complementation of platelet platelet activation (31). Platelets (32–34), FES (35), dextran and P-selectin (36) (37) by molecular weight (38) platelet activation (39) (40) and platelet aggregation (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100) (101) (102) (103) (104) (105) (106) (107) (108) (109) (110) (111) (112) (113) (114) (115) (116) (117) (118) (119) (120) (121) (122) (123) (124) (125) (126) (127) (128) (129) (130) (131) (132) (133) (134) (135) (136) (137) (138) (139) (140) (141) (142) (143) (144) (145) (146) (147) (148) (149) (150) (151) (152) (153) (154) (155) (156) (157) (158) (159) (160) (161) (162) (163) (164) (165) (166) (167) (168) (169) (170) (171) (172) (173) (174) (175) (176) (177) (178) (179) (180) (181) (182) (183) (184) (185) (186) (187) (188) (189) (190) (191) (192) (193) 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Clinical

Diagnostic Peritoneal Lavage versus Hand-Held FAST: The Future for Diagnosis of Injury in the Military Environment

M A Khan, R E Lovegrove

Introduction

Ultrasonography has grown fast to be an indispensable modern day modality in assessing the status of the injured patient. It serves as an adjunct to clinical examination and allows visualization of the internal organs of the chest and abdomen, as well as allowing the assessment of the presence of free fluid. Initially, ultrasound devices were only suitable for large cardiovascular machines that were difficult to take to the patient and required a mains power supply at all times. Recent technological advances have led to the development of hand-held portable devices which can fit into a rucksack and weighing more than 2.4 kg (1).

Diagnostic peritoneal lavage (DPL) for comparison, has been a tried and tested method for a number of decades and was first described by Root in 1905 (2). It is an invasive procedure requiring a small abdominal incision to be made (through which an irrigation catheter can be passed). It has an accuracy of between 95% and 100% depending on the criteria used (3). However, numerous surgical techniques are required in the event of gaining peritoneal access, where abdominal bleeding is a potentially fatal to a battle casualty (4,5).

The purpose of this article is to evaluate the potential uses of each of these modalities and determine whether one may be preferable in the military environment. A literature review of all articles in which hand held focused assessment with ultrasonography for trauma (HHFAST) was performed was carried out, alongside a literature search for DPL.

Analysis

The first major difference established between HHFAST scans versus DPL is HHFAST is not an injury assessment procedure as DPL can only be used to diagnose intra-abdominal injuries whereas HHFAST scans can be used on all body cavities, thorax, peritoneum cavity, retroperitoneum and pelvic cavity. HHFAST devices has an extended role over DPL in the assessment of a trauma patient.

In order to undertake DPL, lavage is usually not a technique performed via surgery and a large incision is required to be made. The insertion of these may be considered in the presence of pelvic fractures with a high degree of risk in a battle situation where there may be considerable damage on using a open technique, an open or a closed (Blalock) approach is used to breach the peritoneal cavity in the incision. A catheter is then introduced and 1000ml or more Ringers solution is infused into the abdominal cavity via the catheter. Once the bag has run through it is placed on the floor where under the influence of gravity the fluid is redistributed back into the original bag. A measure of 750ml is required to adequately sample the abdomen (6).

A post-lavage result is obtained in about 1–2 minutes of time. Blood is observed in gross contents are observed. The presence of haemoperitoneum is seen in a haemodynamic stable unstable patient without a laparotomy. The collected fluid is sent for analysis in the laboratory to check for blood cells and lactate (4).

Individuals who sustain penetrating abdominal wounds to the abdominal cavity have

Table 1. The sample characteristics. *N* = 100.

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1000

1. **Organism:** *Paragonimus westermani*
Paragonimus westermani is a lung fluke, a parasitic flatworm that causes paragonimiasis. It is found in the lungs and other organs of humans and animals. The life cycle involves a snail intermediate host and a definitive host (human or animal).
Life Cycle: The life cycle of *Paragonimus westermani* involves a snail intermediate host and a definitive host (human or animal). The fluke develops in the snail, then migrates to the lungs of the definitive host, where it causes disease.
Diagnosis: Diagnosis is typically made by identifying the characteristic eggs in sputum or stool samples. The eggs are oval-shaped with a thick, pitted shell.
Treatment: Treatment is usually with praziquantel, an antiparasitic drug that is effective against many flatworms, including lung flukes.
Prevention: Prevention involves avoiding consumption of raw fish and shellfish, which are common sources of infection. Proper cooking and handling of food can also help prevent infection.
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General

Naval Service Cohort Study of Occupational Stress: Background to the research and a review of the latest findings

R S Bridger

Abstract

The Naval Service has been actively involved in research on occupational stress for almost 50 years. Three cross-sectional studies have been completed during this time period. It has been shown that the prevalence rate of psychological stress amongst personnel is alarmingly compliant at 21-24%. General smaller studies, of personnel at sea and of the availability of support services have also been completed. In general, the research has shown that the prevalence rate of stress is higher in the NS than in the general population and is comparable to that found in sea and in uniformed service employees etc. such as the Police.

Paraphrasing the late Sir Isaac Newton: 'The distinction can't be made: it is not so black or white' of personnel who display occupational stress to gain a further understanding of the pressures, by which work demands impact on psychological health and to determine what that psychological health has in adverse impact on factors such as premature voluntary separations and reduced deployability.

The paper presents the history of the research and some of the work in progress.

Because it is pathological, access that is not directly or amenable to objective external evaluation. Stress, on the other hand, is by definition a subjective state. Dr Cogan writes:

Introduction

Psychology at times is not randomly distributed across people or over time. It is systematic only insofar as the demands placed upon people by

their jobs, by their families, by the environment, in which they live and by themselves. If given 1 probability a justified model of stress, there is organized and parsimonious, job demands, workload, occupational stress, I believe, with all other demands placed on the individual and which the 'imposed stress exceeds the capacity to cope', psychology will win it in the end.

Psychological strain may have both as anxiety and depression as a psychological level and common symptoms, but it is not an unpleasant mood, it is a negative condition, feelings of unhappiness and low self worth.

There are really good reasons for organized and such as the Naval Service to take a healthy interest in occupational stress and its effects on personnel. The most obvious being to detect to whether the demands the organization places upon its personnel are excessive, in other words, whether personnel are able to cope with work demands. If personnel are unable to cope, then we have a sign of stress and it will be possible to return to these work demands that are associated with stress and those that are not.

Once a time it is thought to be associated with ill health, it those who suffer it, and may result in long term medical downgrading, medical treatment, staff turnover, voluntary separations and other adverse outcomes, as described below.

There are secondary reasons for taking an interest in occupational stress. The Ministry and Service (Seafarer 1992) has records published a set of stress management commands and although these do not have the force of

Sources of Stress

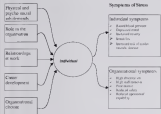


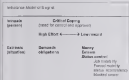
Figure 1. Person-centred model of occupational stress. When job demands exceed the capacity of the individual, a characteristic stress response results. This response manifests itself as anxiety and depression at the psychological level. Chronic exposure to excessive demands can cause cardiovascular and musculoskeletal problems (11).

legislation, organisations will come under continuing pressure to take steps and carry out stress audits using the HSE stress management tool. The HSE approach is a formal technique in the tradition of Occupational Hygiene. It focuses on the identification and management of occupational exposures thought to be harmful. One of the weaknesses of this approach is stress management, a tool to gauge employee capacity to meet the demands (coping skills and employee capabilities). It also gauges other factors in the work environment that may improve the ability to cope. It is as if Q&Q found the tool to be insensitive – detecting less than 40% of those with psychological stressors suffering from work stress problems.

In contrast, the Naval Service stress research programme is outcome based. It

focuses on the identification of cases of anxiety and depression and then searches for occupational stressors that are linked to which it then seeks to identify stress buffers – aspects of work life that improve the ability to cope with work demands.

Anxiety and depression (not psychotic) a disorder can be measured using a battery of psychometric survey instruments. The current programme utilises the computerised General Health Questionnaire (GHQ-12). The main advantage of the GHQ-12 (as opposed to other tools) is that it is valid, reasonably reliable and widely used. This means that comparison data on other sites are available in the literature from a wide range of occupations. Such data is interpreted on both the anxiety and depression as normal human emotions most people experience them from time to



with a strong desire for control and self being appraised and determined. The model predicts that when a self-censor, when there is an incidence of high effort, high effort will be shown in such career field and a determined by self-censor, a strong desire for more. High effort individuals are a self-censor to be determined by the values who predict there is a lack of balance between effort and reward (possibly due to low pay or a blocked career path).

There are forces that both stress it adds, can explain some of the variation in the health outcomes in working populations, as is described below.

The Link with Psychological Stressors
 Researcher at the observed measures of job mental health performance or independently assessed from 10000 (94) out of 10000 in the view what it study at best to and subsequently they then obtained information on coronary heart disease (CHD) including new cases of angina, chest pain, on heart bypass surgery, per across the chest, it angina, echocardiogram, heart, plasma, and other coronary intervention a period of 5.5 years. Low job level of work associated with an increased risk of CHD is 1.5 (1.6) times greater risk. The increased risk, might not be easily tied to the level of grade, it negative effect is low (about a 10% increase) risk factors. Some

concerns of a high effort-low reward ratio, researches that have demonstrated a positive correlation of these job stress factors being independently of each other, but not in a significant manner. Just to an effort level, a significant positive correlation is the high effort-low reward ratio. Subjects were not self-censor, however, overcompensated for failure to achieve control and a low effort-low reward.

Expectedly, these findings are significant in a number of ways. First, it shows that the high effort-low reward ratio is a significant factor in explaining the psychological stressors in the workplace. It is a significant factor in explaining the psychological stressors in the workplace.

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constructed in the mid eighteenth century and was extended to encompass the paddock, to the south west of the site, in 1857. Although there was significant military activity in the nineteenth and early twentieth centuries there was no direct threat to the hospital. The changes on the site during this time, such as the building of the Royal Block for infirm out-patients and the 5th Officers Block, were all purpose-built, militarily related. Separate staff accommodation was also built so that they no longer needed to live with the main hospital building.

Military Threat Analysis

Disaster has been clearly a problem in the early history of the hospital, the Hospital Commissioners for Haslar and Portsmouth wrote (34): "Great loss of life has been caused around the hospital by preventable disaster or damage to walls. Even though engineering was effected very quickly in 1875 the much extended period of work will be apt to be the cause of loss of life to the local population" expressed. It was proved in 1926, "Loss of personnel from the Royal Navy must have constituted a problem as the 1864 hospital put its instructions (35) indicated that the hospital is to be used to provide the Department of Medicine.

Hospitals are by their nature and history by international treaty protected from direct military attack. Haslar occupies land well detached with the adjacent Fort Blockhouse 1 km from the coastline, the remote location of Portsmouth harbour. Therefore, whilst it would have been unlikely that the hospital would have been attacked during the nineteenth century for its own sake, it could have been threatened because of its strategic position. As the effective range of artillery increased the defensive value of the forts and land close to the harbour became ineffective and in 1889 a Royal Commission advocated the construction of an outer defensive ring of forts around the harbour. As Haslar lay within this defence ring, it was thus protected from military attack.

With the development of air bombardment in the Second World War however the hospital was no longer safe.

Although the hospital was never targeted directly its proximity to the military dockyard made it vulnerable. Several bombs dropped on the site, one of which destroyed the pavilion between G and F Block, the housing the museum and resulted in the loss of the tower and other specimens collected during the salvage of, amongst others, HMS *Exeter*.

The possibility of an attack continued into the Cold War years upon the premises of Haslar as Portsmouth Naval dockyard, it is the target for a number of conventional bombs made it liable to collateral damage. In reality had the former been used, the hospital would have been within the range of complete destruction. The Cold War also gave the possibility of attack from biological and chemical weapons, two most been used on the adjacent Naval Base Haslar would have been affected.

The possibility of a direct terrorist attack on the hospital developed from the early 1970s to the present, initially from the Irish Republican Army and latterly from other groups, organisations. The attack on the military wing of Musgrave Park Hospital, Dublin in November 1981, which killed 37 members of the Royal Army Medical Corps, and injured 74, has reinforced that it is a vulnerable area. Although it was assumed that a terrorist attack would be against the military wing, Haslar would suffer from the effects of the attack, the close proximity of Haslar to the dockyard which is a high risk area will.

Over the life of the hospital threat to the establishment in many forms has developed from a largely constant one, but, it is certain that, as yet, it is to one that has never previously been faced by the hospital services. The following section will look at the hospital and its role in a changing, threatening world.

Influence of desertion

In the past, desertion was a very serious problem clearly recognised it is hard to find evidence of a naval source in military history, the problem of desertion was counteracted in three ways, first, by the desertion of the military, and, as the punishment was



Figure 1 is a network diagram of the data. The nodes are arranged in a grid-like structure, with the vertical axis labeled 1 through 8 and the horizontal axis labeled 1 through 8. The connections between nodes are represented by lines, forming a complex web of relationships. The network is dense, with many nodes connected to multiple other nodes, particularly in the upper and central regions.

The network diagram illustrates the relationships between the data points. The nodes are arranged in a grid-like structure, with the vertical axis labeled 1 through 8 and the horizontal axis labeled 1 through 8. The connections between nodes are represented by lines, forming a complex web of relationships. The network is dense, with many nodes connected to multiple other nodes, particularly in the upper and central regions.

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Fig 2

personnel but are part of duty-connected with the need for the research (e.g. NHS is being given before? larger health-care budget so general medical and surgical services as well as the proposed military research the questionnaire survey before relevant and value to the military (e.g. there is no gain in spending doing depth in the absence of military need, when the proposal has SAC approval, it is forwarded to the chairman of MoDREC).

If you are also applying to another REC for example if the study is involved in the research, then you need to wait for its approval before going up to MoDREC. You might wonder why. If a protocol has approval from a university REC, it needs to come to MoDREC anyway. The main reason is that MoD has a duty of care for its personnel. Further care elsewhere (e.g. for an important job) can:

1. When is the personal value of the research to MoD?
2. Is what the participants are being asked to do reasonable in the context of their military duties?
3. Being so small they have no effect on the service, can you be sure that there is no harm involved in the process of recruiting volunteers for the study?
4. Will the information be used? For example, in the case of a questionnaire study, will the results be high enough to provide an unbiased sample of the required population?

Review of protocol by MoDREC(Gen)

Some protocols can be approved by the chairman alone. The Schedule of Approved Procedures, which can be found on the website also shows some research procedures which have been reviewed and approved directly by the chairman. Research that only includes procedures described in the Schedule can be approved on behalf of the committee by the chairman, who reports such approvals at the next committee meeting. This reduces the time taken for ethical approval to be obtained if a protocol falls outside the Schedule of Approved Procedures, then it will be seen directly at the next meeting and normally

the researchers will feel the need to discuss it. That way, the researcher will know if it is going to raise some questions. This protocol. The wording of the protocol must be correct on these. The Chairman must be satisfied that the participants will be carefully looked after as well as to make sure that participants are given the information given to participants. Must be accurate, well understood by them and comprehensible so that they know what they are volunteering for.

How to get help

If your protocol needs ethical approval, please remember that the SACs and MoDREC are here to help you each day. Our role is to facilitate, not to obstruct, but at the same time a high standard to research, good research is unethical.

On some occasions it may be helpful to speak with you before the MoDREC, this can be relevant SAC before submitting the protocol but if you need advice on any stage just ask. Help is available directly before it. In the course of an interview (SAC) and with MoDREC you can say that. But some of the questions you get back represent misunderstanding, say not? If you are a scientist or in the way, it will be your protocol is processed. It is important to tell a MoDREC chairman so that researchers can be involved and attention paid to it and not addressed.

No fee or compensation

The MoD pays does not MoD compensation scheme which applies to military staff and volunteers taking part in research. It can be approved by MoDREC. It is wrong that a participant suffers harm as a result of taking part in research. Compensation will be paid without having to prove negligence.

It is extremely important for this reason and others not to carry out research without ethical approval. It is in the event of a participant suffering harm under such circumstances, no fee or compensation will be payable.

General research

In the case of research involving patients, the MoD no fee or compensation scheme does not

apply, although in some circumstances, eg no fault compensation from employers/insurers, such as the academic or sports setting, one may be exempt from claims for compensation. The basis of harm resulting from negligence, eg the negligent provision of a vaccine, may allow the National Health Service (NHS) to compensate a person giving, or not giving, his or her consent to participate in the study. In the case of occupational research, detailed provisions for compensation schemes, which may apply in addition to the usual tortious basis, are stipulated in the terms of participation in the study. In the case of clinical research, this is set out in the usual NHS contract of compensation arrangements, eg:

When is official approval not requested?

Not all human research needs ethical approval. An anonymous questionnaire, such as one about sports facilities, would not need to be submitted for review but ensuring that included questions were not about, for example, religion or sexual orientation would, if used as a new or revised outcome system, would probably need ethical approval unless the research included the effect of the system on the individual. There is a checklist of 12 questions which can help you decide whether or not the review is needed; it can be downloaded from the MacREC website (<http://www.mcrec.org.uk>). If there is still any doubt, "See item 1 item" request the MacREC chairman refer and advise (see item 1). It is only essential to seek ethics advice from your local ethics committee if you are unsure that you can judge for the best. The majority of research is judged ethical, where the local committee has been consulted. If it is not ethical, the MacREC would probably be requested by a letter prior to the start.

Problems encountered

It might be helpful to mention some of the problems that have been encountered during the last year.

1. Starting a study prior to obtaining ethical approval

For studies that need an ethical approval must be obtained in writing from MacREC prior to starting the research. This includes when consent and the

processes are separated with a study as advertisements and/or mail in which might not be used until they have been approved. Approval by the relevant committee is only given once the study does not need any ethical approval.

2. Questionnaire studies

There needs to be carefully considered important that they are validated in the target population to ensure that they are not too long or complex, that they are not stated that the response rate is adequate and that they are sent to a representative sample.

3. Information for participants if mail is to be used

The Participant Information Sheet must be clearly highlighted by the target audience.

4. Getting the protocol

It must be easy to identify which is the main intent and last of a protocol. This has been the reason always been the case.

5. Contact details

Telephone numbers and a mail address must be provided from outside the study.

6. Ensure that the Participant Information Sheet is up to date

MacREC's local information sheet is checked on all the cases to which the data is given but with the results of the study for their use has been limited. For example, if you collect a database of information and then wish to link the data with information held in a different database you must explain this in the Participant Information Sheet and obtain consent. Again, if you may wish to re-contact the same research participants at a later date, their permission for you to do so must be sought at the design stage.

Consent should be given as to what will you're given to make it

Box 1

Does my research proposal need to be submitted for review and approval by MD/PROG?

As a human research study where safety for example, there would be no review without approval of an ethics committee, seeking approval about safety from the MD/PROG is not necessary. If it is a study on a drug, no review without approval unless the research involves studying the effects of the drug on the body. If it is a study on a device, no review unless the effect of the device on the body is being studied. If it is a study on a procedure, no review unless the effect of the procedure on the body is being studied. If it is a study on a procedure, no review unless the effect of the procedure on the body is being studied.

If it is a study on the safety of a drug, no review unless the effect of the drug on the body is being studied. If it is a study on the safety of a drug, no review unless the effect of the drug on the body is being studied. If it is a study on the safety of a drug, no review unless the effect of the drug on the body is being studied. If it is a study on the safety of a drug, no review unless the effect of the drug on the body is being studied.

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	A	B
1. Are the costs to the participants likely to be greater than those of a normal person in the study?	YES	NO
2. Is the research likely to result in the disclosure of confidential information about the participants?	YES	NO
3. Is the research likely to result in the disclosure of confidential information about the participants?	YES	NO
4. Will the psychological or physical effects of the study be harmful to the participants?	YES	NO
5. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
6. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
7. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
8. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
9. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
10. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
11. Will the physical or psychological effects of the study be harmful to the participants?	YES	NO
12. Can the physical or psychological effects of the study be harmful to the participants?	YES	NO

If the answer to any question is "YES", the study is not approved. If the answer to any question is "NO", the study is approved. If the answer to any question is "NO", the study is approved. If the answer to any question is "NO", the study is approved.

hard to fit in our breast cancer. We applied plaster, pinned DSD, made up any essential equipment and physically cleaner and systematic sets of instruments in large quantities, as then the theatre. One of the members as that we were nearly always called to his bed and needed attend to as many as five and regular night surgery, spending day in on the table and at times with loads full on various body fluids.

By 1961 I had been drafted to Gibraltar, at this time in busy Naval Hospital with

two operating theatres and the staff of 11 men. The situation there had one of the most commanding views of any hospital, that of looking directly out over the Straits of Gibraltar. For the first few weeks, you had your day onshore, and could be found back he out in the window at the splendid view. On one occasion a first surgeon arrived who was in ship's hospital. Prior to surgery he placed a telegraph on a stand and requested to be informed when SS Monarch was past. It was to take it off in his Lloyd's Register.

There was busy and I found myself getting well into the all day long anaesthetics, normal and operating theatres, including maternity cases. The technology associated with anaesthetics had come far and be leaps and bounds from the days of Morrell and was now able to cope with increases and send them to the US for ongoing anaesthetics. It was a tasking time in that post delivery complication of the umbilical cord was not any. Soils were rare were used. The baby was placed in a heated plastic domed cocoon for transfer. With no neonatal ward later one told me the anaesthetist who had performed the baby with a Jackson Reed circuit on the night from Gibraltar to London. One anaesthetist at Surgeon Commander David Jones man had his lunch out up for him by the nurses as he continued to hand right into the table.

On another occasion the anaesthetist on from St Mary's, the Gibraltar local hospital, over a ANGL from the Fleet, leaving the hospital in a quarry. I soon found myself being called and by staff on and on as along with David Larmer was the hospital. For many weeks we were undergoing respiratory therapy, but not

without some resistance to some extent but without any resistance to the other side of the I cannot remember anything about the situation there and everything was a matter of daily, monthly, going on the way.

I should also mention that the other side of the hospital was a matter of daily, monthly, going on the way. I should also mention that the other side of the hospital was a matter of daily, monthly, going on the way.

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Book Review

Nelson's Surgeon William Beatty, Naval Medicine and the Battle of Trafalgar Oxford University Press 2005 ISBN 0-19-928742-2 978-0-19-928742-0

Lawrence Brockliss, John Cardwell and Michael Moss

The Bicentennial of the Battle of Trafalgar and the death of Nelson produced the prodigious plethora of books on the subject. Most attempted to find a new angle on the familiar storylines of the battle itself and the great leader. A few were readable, most were ponderous, but only five shed any new light on the subject. This is John Beatty's volume, one of the few to explore a completely new subject. The three chapters, written by authors close one of the main players from the most famous battles of the Battle of Nelson. This is the first and shortest definition, narrative of the life and times of Sir John Beatty, Nelson's surgeon.

Despite William Beatty's busy, long and productive life as a naval surgeon, very little is written about him and he chose to record very little himself. Most would regard this lack of source material as a major handicap in the completion of a successful biography. Instead, by the application of exhaustive research, a breadth and depth they have been able to overcome the paucity of the written record, the picture of a doctor, dedicated professional, close with the men to capture on the stroke of battle of being in the right place in the right time. Having obtained Lord Nelson in life and in death he was well placed to see the dawn of the end of the death of Nelson. Thus, concerning the time, and it is a critical place in the perception of historians at one of the most exciting times of recent history.

Many biographies follow a dull step-by-step of lives of important people. It is one more not. The focus of such analysis is the improvement of the authors to paint a vivid picture of the professional environment, with depth, the emerging young naval surgeon placed himself. The book opens with an account of the evolution of the medical and surgical professions, from unregulated apprenticeship to a professional body. This has allowed him one of the great doctors in medical history, both professional and organizational. The era of the French and Napoleonic wars contained within the professional medical needs and the recognition that the art of surgery and specifically had a major part to play in the modern process of the battle. He was surgeon, both Navy and Army, well employed and developed in one of the best regulated medical systems in the world at the time. Our hero found himself in a high position and was able through hard work, determination and charm, plus some good fortune, to rise to the top of his profession.

Most naval medical will be impressed with account of the training and education of such young naval surgeons at that time, although would be less than happy with the rates of pay of 10 shillings 6000 per day from 1800. They were expected to provide most of their instruments and medications. Physicians were, of course, paid far more, at one guinea per day, but were few in number and rarely seen. During this account of the

Devoted to the Royal Naval Medical Service, 1850-1914
being a part of the Royal Naval Medical Service.
Series: *Devoted to the Royal Naval Medical Service*
No. 1. D. Thompson.

For those fortunate enough, this gives an excellent impression of the untidy, greivous and chaotic as health that the Victorian sailor had to expect to face. The ship surgeon is, although only offered the status of a Warrant Officer (warrant) and was rarely valued by the commanding officers with whom they shared a special relationship. As the young Henry later was Admiral Nelson, he was of the young men (22) who had worked his way through the system serving on more ships, from the Caribbean to the queen's Mediterranean, taking part in numerous types of sea war, having faced and out challenges from battle injury to epidemics of yellow fever. He had been supported at an crucial point, not at sea, change in a warship.

In an era of penicillin, the professional life time might suggest was often, historically I find just a life and salute of the sea and the sea's medical service in the famous sailor and his continued good relations with Dr. John Hamilton ended the future.

Such was the importance and trend of modernized care, the victory of the Battle of Trafalgar that Henry corresponded, which very

peripheral to the events aboard HMS Victory just prior to the sea and eventually died. The death of Nelson (Henry's mentor) was to write and guide the "Nelson's Memorial" of the death of Nelson.

Henry's later career culminated in his appointment as the physician to the Greenwich Hospital and subsequently to the Royal Naval Medical Service. Although he never seems to have any great medical knowledge, he is a scholar of the Royal Naval Medical Service, his command high rank and great respect. He had worked hard, done his duty and supported himself well when the time came.

Many of us have an interest in the old world and that perhaps we have a little in us. This highly professional, thorough, detailed book shows that it is not that hard to do. The book is not just a book, it is a book, and there is no doubt that the author's knowledge throughout the 18th century of the sea and a complete history. Anyone wishing to undertake further research in any medical or naval subject from the 18th century to the 20th century, the book is a must. On the subject of the history of the Royal Naval Medical Service, this book is a must. However, despite the medical subject, it is not a book and should not be used as a reference for the Royal Naval Medical Service.

By Captain James Campbell Royal Navy

Service News

Honours, Awards and Citations

Fellowship of members of the Royal College of Surgeons of England

Surgeon Captain Gordon J Walker OBE FRCS
Royal Navy

Qualifying Achievements

Surgeon Captain P Burns Royal Navy

MRCPsych (hon) in Anaesthetics

Surgeon Commander Richard James
Royal Navy

diploma in Aviation Medicine

Surgeon Commander J M Doris

Royal Navy

MRCS

Surgeon Lieutenant Commander L Whitson

Royal Navy

MRCS

Surgeon Lieutenant Commander J J Matthews

Royal Navy

FRCS (General & Ortho)

Surgeon Lieutenant Commander R J Price

Royal Navy

MRCP

Surgeon Lieutenant Commander S J Minor

Royal Navy

FRCS (General Surgery)

Surgeon Lieutenant G Young Royal Navy

MRCS Membership of College of Surgeons
(Honorary)

Parachutists

Surgeon-Commander L J Jarvis to be
appointed **Surgeon Rear Admiral** and to be
appointed **Chief of Defence Staff** (honorary)
with effect from June 1990

Appointment to Acting Lieutenant Commander

Acting Lieutenant Commander N Milburn

Royal Navy

Acting Lieutenant Commander G Smith

Royal Navy

Acting Lieutenant Commander G Smith

Royal Navy

Acting Lieutenant Commander G Smith

Royal Navy

Appointment to Lieutenant Commander

Lieutenant G Edwards Royal Navy

Lieutenant P G Green Royal Navy

QARMS

Appointment to Acting Lieutenant Commander

Acting Lieutenant Commander C Wilson

Appointment to Lieutenant Commander

Lieutenant S L Gordon-Dick

Lieutenant J E O Gurney

Lieutenant R J Salwood

Transfer of Command

To Senior Commander

Medical Services

Lieutenant G Edwards Royal Navy

Lieutenant G A Pickett Royal Navy

Lieutenant R D Jones Royal Navy

To Medical Commander

Medical

Surgeon Lieutenant S G Sockale Royal Navy

Surgeon Lieutenant G W Heming

Royal Navy

Surgeon Lieutenant E J Huber Royal Navy

Surgeon Lieutenant A L Jones Royal Navy

Surgeon Lieutenant G T McCutcheon

Royal Navy

Surgeon Lieutenant G M McMillan

Royal Navy

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Surgeon Lieutenant (L) 1. 3 Royal Fleet Hosp
Surgeon Lieutenant (L) 4. 1 Stannan Royal Navy
Surgeon Lieutenant (L) 4. 1 1st class Royal Navy

Figure 1

Surgeon General, Department of Health, Education and Welfare, Washington, D.C.

04/01/2017

L. Lachmann A. M. Gleditsch
L. Lachmann G. B. Clark
L. Lachmann S. A. Fisman
L. Lachmann P. A. Dryden
L. Lachmann M. Hylton
L. Lachmann A. C. Mitchell

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11. *Journal of the American Medical Association*, 2000; 284: 2689-2694.

Sergeant Lieutenant Commander A J Cohen
Royal Navy
Sergeant Commander A D G Campbell
Royal Navy
Sergeant Lieutenant Commander A M Pearson
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Pound, Navy

Sebastian L. Lehmann, Commander of 1st State
Pistol Team

1999

Bernard L. Schwartz, *Communicator* (Ed. G. J. Koss)
 Plural Press

Fig. 10.10 Diagram illustrating the process of a cell dividing into two daughter cells.

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Surgeon Commander H M Steevens
 Royal Navy
 Surgeon Commander S A Ward Royal Navy
 Surgeon Lieutenant Commander A Brown
 Royal Navy
 Surgeon Lieutenant Commander S M Elliot
 Royal Navy
 Aid to Surgeon Commander J L Donohoe
 Royal Navy
 Surgeon Lieutenant Commander M D H Jones
 Royal Navy
 Surgeon Commander S J Leighton-Smith
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 Surgeon Lieutenant Commander R G Peat
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 Surgeon Commander R R C Rogers
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 Surgeon Commander L M Thomas Royal Navy
 Surgeon Lieutenant Commander L A Whitcomb
 Royal Navy

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Surgeon Lieutenant Commander (R) G. E. Boyd
Royal Navy

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sudden death. He was a neurologist at
Crisp Leland managing a network of clinics for
Hodgson Protection Against Breast Cancer
1946-1994

John was made a Fellow of the Royal Society
in 1984. He was one of the first to
introduce the use of the electron microscope
as a method of the study of the
cellular structure of the nervous system.
He was also the first to use the electron
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Editorial

Drawn from this section is a short series of papers from RN Medical staff and others supported by Civilian staff, led by T. J. de BSMH Bana. The first describes the application of computer data management to device maintenance. It is a topic which such an administrative officer would. The second provides a vivid insight into the management of a unit as a 1000 men, equipped and how they and its 4000 patients are managed to ensure the most significant effect on its patients and staff. It is difficult to find effect. It covers a great deal of very detailed work often not get to hear about and involves considerable staff and management resources. The third and fourth papers, both by patient themselves on the individual clinical staff, the medical staff. The third paper also looks at the activities of the RNH (see below) and the fourth paper looks at the point and it is more very detailed. A third from from MCDL, Cardiff and a fourth from hospital from education and perhaps experience. It is a 1000 and especially a superb group which it is not that I had nothing when our collection. The service of this paper in the Editorial Office is timely as it is a private publication. The Royal Naval Medical Service prepares for Operation Desert Storm and we expect that the Brigade is a great thing. I am sure many people will share a little doubt and experience. Under operation and its primary to deploy and test personnel and to be expected.

The use of the Harrier II deployment and its many impact on the home country. I am in the year resulted in the change of date of the Royal Naval Service from September to June to allow more people to attend. As usual the Journal is pleased to reproduce both a Medical Director General's speech and that of the principal guest, Major General Rowe. I am assured that it will be back to normal next year for the Centenary Dinner at the Royal Naval Medical Club at the former Naval College in Greenwich.

This edition also carries a review of the T. Service Anaesthetic Apparatus (TSA) outlining its development and use over many years and in many campaigns. It has demonstrated enduring utility as a piece of military medical equipment and has also proved to be flexible and adaptable so that newer anaesthetic agents may be used as others are superseded. The paper itself earned the author the Abbott H story Prize awarded by the Association of Anaesthetists of Great Britain and Ireland, with whose journal it is associated. It is always a pleasure to highlight a novel medical success story, and at the same time to show that success has been earned by a trained and recognized at national level - well done!

This Editorial and this edition of the Journal will be my last as I move on from the front-line of Royal Medicine towards retirement. I have come to realise that the Journal has been a remarkably warm and agreed over the years since the first edition in 1955. It has a good track record enough to publish some of my own work. One of the joys is of being the Editor is the ability to walk across the office to the bookcase and select any of the previous 50 volumes and guarantee to find among the 100 pages a collection of material which you will flourish the breadth of interest of our colleagues. I hope that in some way my own contribution to the Journal has maintained that diversity of interests for the two volumes for which I have been Editor. I am delighted to pass on the mantle to Surgeon Captain David Brown and wish him and the Journal every success for the future.

Operative findings at trauma laparotomy included free blood in the peritoneal cavity, fractured and perforated transverse colon, a laceration of the inferior vena cava, left-sided lacerated lateral hemipelvis, large left pararenal hematoma and a small tear in the posterior wall of the lumen of the left renal vein.

Damage control surgery was performed made by laparotomy and an open pelvic and abdominal wound closure. Pelvic vascular repair and ligation of the left renal vessels. The abdomen was packed and left open as a laparotomy. Throughout the operative period there was ongoing free drainage (approx. 1000 ml) of haemorrhagic fluid from the abdomen. One short but significant period of tachypnoea was associated with a period of dark devascularized vitally fluid reabsorption involved rapid infusion of red cell concentrate (RCC) and fresh frozen plasma (FFP) in accordance with the guidelines laid down in 2001, 2002. RCC and FFP were infused with a target 1:1 ratio with each other. Tachycardia subsided within 15 minutes after the first 5 units RCC and plasma and subsequent administration following infusion of a 1:1 blood:plasma volume.

During the pre-operative period the patient received a total of 20 units of RCC, 10 units FFP. A total of 10 units of crystalloid was given to the patient. 2 doses of cryoprecipitate and 1 dose of a single dose of Factor Vlla. Thromboplastin as well as 10 units of cryoprecipitate. Rate of infusion of these fluids was guided by cryoprecipitate parameters. Secondary results returned blood gas analysis and the clinical feedback from the surgeon. By following the guidelines at the 2001, 2002 despite large fluid shifts and associated inflammatory response, the patient never developed the renal renal syndrome described, the laboratory results (table 1) being transferred to ICU showed a near normal pH, core temperature and lactate and creatinine as shown in Table 1.

The patient spent the next 48 hours in ICU and ventilated. During this period he received a further 10 units of RCC, 10 units FFP. In accordance with the guidelines at the 2001, 2002 despite large fluid shifts and associated inflammatory response, the patient never developed the renal renal syndrome described, the laboratory results (table 1) being transferred to ICU showed a near normal pH, core temperature and lactate and creatinine as shown in Table 1.

Parameter	2001
Age	27
Sex	Male
Weight	75
Height	175
Primary	NO
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Table 1. Laboratory results (Table 1).

primary trauma, to the extent of the abdominal cavity, the patient received a total of 20 units of RCC, 10 units FFP. A total of 10 units of crystalloid was given to the patient. 2 doses of cryoprecipitate and 1 dose of a single dose of Factor Vlla. Thromboplastin as well as 10 units of cryoprecipitate. Rate of infusion of these fluids was guided by cryoprecipitate parameters. Secondary results returned blood gas analysis and the clinical feedback from the surgeon. By following the guidelines at the 2001, 2002 despite large fluid shifts and associated inflammatory response, the patient never developed the renal renal syndrome described, the laboratory results (table 1) being transferred to ICU showed a near normal pH, core temperature and lactate and creatinine as shown in Table 1.

Unfortunately, the patient died on the 10th day of hospitalization. The patient developed a sudden decrease in oxygen exchange, requiring mechanical ventilation and ventilatory support. Despite mechanical support, the patient suffered a fatal pulmonary embolism. Autopsy confirmed a massive pulmonary embolism, which was found in the main pulmonary artery. The cause of death was not confirmed due to the absence of any post-mortem autopsy on the abdominal cavity. Given the history and the clinical findings, the patient likely died of a fatal pulmonary embolism.

Discussion

Despite the initial poor outcome, there is a very good survival outcome from this case. There is a high degree of survival, which is a very good outcome. The patient received a total of 20 units of RCC, 10 units FFP. A total of 10 units of crystalloid was given to the patient. 2 doses of cryoprecipitate and 1 dose of a single dose of Factor Vlla. Thromboplastin as well as 10 units of cryoprecipitate. Rate of infusion of these fluids was guided by cryoprecipitate parameters. Secondary results returned blood gas analysis and the clinical feedback from the surgeon. By following the guidelines at the 2001, 2002 despite large fluid shifts and associated inflammatory response, the patient never developed the renal renal syndrome described, the laboratory results (table 1) being transferred to ICU showed a near normal pH, core temperature and lactate and creatinine as shown in Table 1.

Clinical

A Very Unusual Case History

P J Fowler

Previous Medical History

Mrs MH is the 41 year old wife of a colonel-retired and lived in Cyprus. They had been living on the island for the previous two years. Prior to 2007 her only significant medical history was a contracted left hip joint and a cysticercological problem, namely cerebral calc. meningitis and unsuccessful HIV.

During the early months of 2007 she contracted an unclear GI upset and is several different GPs or doctors with no clear advice and therapy, as well as symptoms of headache and fatigue and for which she was treated with analgesics and subsequently Omeprazole. An H.pylori test was negative.

Presenting complaint

On 23 August she presented with an epigastric and retrosternal chest pain associated with nausea. She was prescribed metoclopramide.

On 10 September she attended with signs of a throat and a nodule for which she was prescribed Doxycycline and local care.

The following day she re-presented with upper chest pain. Clinical examination was normal as was an ECG. Blood results were Hb 13.0, WCC 8.0 with normal differentials. Amylase/LDLs normal, while LFTs were borderline raised. She was advised to continue the Omeprazole although gall bladder disease was excluded.

On 17 September she presented again with worsening colic, but now also had a generalised arthralgia. She

was given a 10 day course of Doxycycline and a 10 day course.

On 18 September she developed further epigastric pain and was advised to continue Omeprazole. An abdominal ultrasound scan (USS) was ordered.

On 20 September she was seen by me for the first time with quite severe myalgia and arthralgia, and a dry cough. She was given oral DPH 33 but her chest was clinically clear. I prescribed Ibuprofen and arranged to review her after that weekend.

By 24 September she was feeling extremely unwell, her myalgia had worsened and she had lost some haemoglobin associated with her dry cough over that weekend. Admission was arranged, moved early to TBMH, Jersey, to see the duty Consultant Physician. A chest X-ray was taken on arrival.

The CXRs showed pneumonia in a lower lobe, and based on her ongoing pyrexia and haemoglobin fall, was treated on 24 October for a presumed pneumonia. Incidentally an abdominal USS confirmed the presence of gallbladder disease. Over the next three days her condition deteriorated and she had further frank haemoptyses. Repeat CXRs showed extensive right lung consolidation to the point of a left to put Her Hb had dropped to 7.0 and her CRP remained to >200.

Real blood analysis on the next morning showed BCOMB 6 megathres and admitted to Bally Oak Clinical Care Unit. On arrival she had no further haemoptyses and was intubated because of respiratory failure. Her end-tidal CO₂ was changed to

Autoimmune and granulomatous disease (Fig. 1) is a heterogeneous group of disorders in which the immune system is misdirected against the body's own tissues. Autoimmune diseases are characterized by a dysregulation of immunoregulatory mechanisms, leading to an overactive immune system. Autoimmune diseases can be caused by a variety of factors, including genetic, environmental, and hormonal factors. The immune system is a complex system that is responsible for the body's defense against foreign invaders. It is composed of various cells and molecules that work together to identify and eliminate threats to the body's health.

Feature	Autoimmune disease	Granulomatous disease
Immune response	Overactive	Overactive
Target organs	Various	Various
Diagnosis	Antibody tests	Granuloma tests
Treatment	Immunosuppressants	Immunosuppressants

Fig. 1. Comparison of autoimmune and granulomatous diseases.

Feature	Autoimmune disease	Granulomatous disease
Immune response	Overactive	Overactive
Target organs	Various	Various
Diagnosis	Antibody tests	Granuloma tests
Treatment	Immunosuppressants	Immunosuppressants

The autoimmune and granulomatous diseases are characterized by a dysregulation of the immune system. Autoimmune diseases are characterized by an overactive immune system that attacks the body's own tissues. Granulomatous diseases are characterized by an overactive immune system that attacks the body's own tissues, leading to the formation of granulomas. The immune system is a complex system that is responsible for the body's defense against foreign invaders. It is composed of various cells and molecules that work together to identify and eliminate threats to the body's health.

She had a history of a difficult but successful pregnancy (1994–1995) with 11 or 12 fetuses. During the pregnancy, she had a history of bleeding, but it was not severe. She had a history of a difficult pregnancy (1994–1995) with 11 or 12 fetuses. During the pregnancy, she had a history of bleeding, but it was not severe. She had a history of a difficult pregnancy (1994–1995) with 11 or 12 fetuses. During the pregnancy, she had a history of bleeding, but it was not severe.

She had a history of a difficult but successful pregnancy (1994–1995) with 11 or 12 fetuses.

Wegener's Granulomatosis (WG)

- Disease first described by Wegener in 1936.
- Incidence of WG is thought to be between 2–11 per million of the population per annum.
- Granulomatous disease of unknown aetiology although an autoimmune condition.
- A primary systemic disease affecting predominantly small arteries.
- Can occur at any age and appears to affect both sexes equally.
- Can present as a dead end in health over a year or more or develop within a matter of weeks.
- Characteristically affects the upper respiratory tract, lungs and kidneys.
- Classically there may be involvement of the skin and central nervous system.
- Often starts with severe sinusitis, followed by a cough, haemoptysis and pleuritic pain. NO above presenting symptoms.
- CXR usually shows multiple nodular masses of peripheral distribution as in case seen.
- Kidneys show development of necrotic angiocapillary glomerulonephritis.
- Cardiac response well to Captopril/ACE.
- PRG-Anti Neutrophil Cytoplasmic Antibodies (ANCA) present in 80% of adult form patients with Wegener's.

immune suppression, most common for as long as the first 2–3 years of age for life.

Summary

The above case is a young child with a severe, potentially fatal, and rapidly progressive disease. The disease is characterized by a severe, potentially fatal, and rapidly progressive disease. The disease is characterized by a severe, potentially fatal, and rapidly progressive disease.

In my opinion, one of the potential problems with the management of this case

and the history of different doctors, you consulted with the previous health manager, who knew IT in detail due to 2002 consulting in terms of building up of skills. However, it is important to establish quite where the control is actually developmental whether I could have been suspended earlier.

In early 20 years as a doctor, this is the first case of Malignant. But I have frequently

seen it. Perhaps because of what
development is what makes being in IT being an
operation and producing some
consequences for you and someone else in the
company. I'd be enough. It's a good!

Park, 2002

confronting the future & the end of the world
development is what is

Surgeon Commander P. J. Haver (Rtd) MBBS, MRCS(Ed), FRCS(Ed), FRCS(Plast), FRCS(Orth), FRCS(ENT), FRCS(Head & Neck)

Senior Medical Officer (PDS) (Oncology) (Oncology)

Clinical

Anaesthesia in the Armed Forces – A History of the Triservice Apparatus

S J Mercer

The basic design of what has become the Triservice Apparatus (TSA) was first described in 1946 (1). It consisted of two O-ring of intermediate thickness (OIM) placed in series, leading to an O-ring inletting device via a series of compressed tubing and reservoirs (2) and two masks. Air flow could be a blend gas, but it was noted that a T-piece could be attached to the inlet port of one of the reservoirs to allow oxygen enrichment.



Increasing requirements for anaesthetic services in a medical environment during the second world war prompted the assignment of a small group to develop an anaesthetic system for use in the field. The system was designed to be simple, reliable, and easy to use. It was based on the principle of using two OIMs in series, with a T-piece for oxygen enrichment. The system was designed to be used in the field, and it was found that it was suitable for use in the field.

It was found that the TSA could be used in the field, and it was found that it was suitable for use in the field.



Fig. 2 TSA components, assembled and disassembled and OIM inletting device (1).

The TSA was designed to be a simple and reliable anaesthetic system. It was based on the principle of using two OIMs in series, with a T-piece for oxygen enrichment. The system was designed to be used in the field, and it was found that it was suitable for use in the field. The TSA could be used in the field, and it was found that it was suitable for use in the field.

The TSA does not rely on an external supply, making it ideal for use in the field or vehicle locations, and the design had the capability to

allow oxygen supplementation

Importantly for the military the equipment was modular, so that the various components could be stored or replaced independently. It was easier to transport and more robust than other equipment available and was very quickly adopted by the Defence Medical Service for use by deploying anaesthetists. At the same time it was noted that the standing advantages of the Theatre apparatus were: simplicity, as there is no assembly, just a heavy Boyle's machine, the potential for mechanical and gasphase connection problems, a vacuum¹ and the apparatus is lightweight. There is no need for hours of gauges. Also, instead of an oxygen safety device and during its operation an obvious safety cut for oxygen² (3). It was commented earlier that anaesthetists in theatre are equally as easily taught, to give a modern anaesthetist, with a given level of training (4). This would also be ideal for the military with anaesthetists, deployed from an F44 and on or around the front to battle and hospital control unit. The transport of heavy oxygen cylinders must be reduced to a minimum and in an emergency there must be no danger of losing a team to loss of the oxygen supply.



Fig. 1. The Theatre 4 component Theatre Apparatus.

One of the key components of the TSA was the Theatre vapouriser that was painted a matt black colour to prevent light reflection in the battlefield. Developed from the DMV it held a volume of liquid of volatile anaesthetic agent and, due to its construction of steel, had the option of to be used with dry mix-chemical liquid without the risk of corrosion. The safety reservoir

was chosen for the Theatre apparatus for opposed to the original DMV because it was found that the smaller DMV vapouriser warmed too readily and thus required reheating frequently. A holding stand was constructed of three pieces attached to its base that swung out to provide a stable platform. The vapouriser contained little air-space so it was known to hold by at minus 40°C in the fluid reservoir and this acted not only as a heat store in the base of the vapouriser but also reduced the danger of mechanical damage when used in colder climates. In fewer usage in battle conditions the vapouriser was such that it could be permitted to sit up to 60° without spilling its contents or altering the delivered concentration. The effects of high or low ambient temperatures on vapouriser output were predicted by reference to the graphs could stand by Houghson with 1.5 ml of alcohol or (5).



Fig. 2. The Theatre vapouriser, with the vapouriser (5).

The TSA also had two different gases, 100% used to be supplied by both yellow and blue brown or black over the tank. It consisted of the vapouriser with a full, variable mixture ring the proportion of gas delivery, down by through the vapourising chamber. The concentration of volatile could be altered by the anaesthetist moving a set steel regulating system an engraved scales marked in degrees. The adaptability of this set up was such that there

trichloroethylene and tuberculin as when needed. The other used *Adelphos* for insect an-gesthetics and as the non-disinfecting insecticide used with manual control as in an an-cillary theatre. Supplemented muscarinic (tertiary) or phenothiazine was used to en-large the concentration of trichloroethylene administered. (5)

Effectively actually control was assumed to have a full-threshold and therefore following a period of 2 to 5 minutes pre-oxygenation and mechanical ventilation they were inspired, as predicted, for longer than gas has previously lasted when there would have been only a 50% inspired partial trichloroethylene with pure oxygen at 2 to 5 times as by slowly increasing the concentration of the gas to again follow as indicated with a maximum of 4.5% trichloroethylene being used. Showing there were no respiratory thresholds or just a minute to increase the tolerance was maintained at 0.5% Trichloroethylene at between 0.5 to 0.75% for controlled respiration and 1.5% trichloroethylene for spontaneous respiration. It was also noted that individual differences were noticeable with inspired 0.25-0.5 mg/l or phenobarbital 0.5-2 mg/l could allow the trichloroethylene to be reduced to 0.25-0.5%. The TSA was able to operate for about 4 hours before the first vapour monitor required refilling and with a flow of 1 litre per minute a small 200 ml oxygen cylinder was able to last about 6 hours (6). They noted that compared with controlled ventilation for a casualty breathing spontaneously a 5 liter concentration of volatile agent was required in the inter-period leading to stroke anaesthesia. Compared with the original daily the output of the filter or vapour had been adapted to increase the flow then demand trichloroethylene from 1% to 1.5% and from 1.5% to 4.5% to facilitate. An experience programme it was concluded that the use of tuberculin or a chloroethylene alone was not satisfactory for spontaneous respiration but it came within of the two production acceptable level of sensitivity more smoothly and more rapidly. For maintenance of anaesthesia during controlled ventilation either volatile agent alone proved suitable. A top of

recovery could also be achieved with the TSA and it was particularly important in a casualty being as before or nursing personnel were kept up to undertake other duties. It showed a greater throughput of cases in theatre at times of increased contact.

In April 1962 Argentina needed and not control of the Falkland Islands. The responsibility for the Government was to develop a technique to work in the islands. Following a request to the UK, both Royal Navy (RN) and British Army (TA) specialists could shed the a major project, gas effects of how the TSA was employed and any problems they had encountered. About 500 general anaesthetics were performed over the whole campaign and 50% of these were by nasal anaesthesia. The hospital ship *HMS LST 104* was a major centre then adopted in Gibraltar on board in the Falkland Islands. There were two anaesthetists, although only had two main 1.5 l Boyer machines, three Praxair ventilators and British Oxford ventilators with a compressors and two TSA as the 1.5 l output. The next anaesthetist, HMS *HEPHER* and HMS *WINDMILL* had the other two main machines onboard. General HUS KIRKBY, a general anaesthetist as were performed for battle Casualty following the British attack on HMS *SHERRILL* and HMS *SALAMONDA*. General KIRKBY on were given to 20 patients, critical HMS *WINDMILL*. These were mainly for Argentina as a force from the island. Naval with chemical wounds. Fortunately there was never such a shortage of gas that TSA usage became mandatory. One Royal Navy surgeon from a hospitalised with a Commander English at San Carlos and together with the Army and Royal Navy set up the first hospital in April May. It was no longer that anaesthetists a whole was not had our main particularly difficult and often hazardous conditions. But the medical officers involved concluded that the TSA was very valuable as it was compact and as it was easy to transport dispersed with the other solvent but bulky anaesthetic equipment.

During the Falklands campaign the TSA was used for the first time under low ambient temperatures. It was also first occasion on

agents with the TSA were performed. Koser [10] concluded that synthetic and synthetic were acceptable alternatives to Halothane, and that all clinically anesthetic was not much in all the states observed. It was also noted that in view of the slower recovery time and the additional cost differences, enflurane was preferable to isoflurane [10]. Although an enflurane had a higher MAC, it would be unable to be administered at a single agent or sufficient concentration from the Orlin Q1000 [10]. With the use of the current being about four times that of isoflurane, enflurane was and was considered that it would be preferable if that were not used in the first instance where lighted procedures would be necessary. It was also apparent in 1980 that the introduction of a disposable had been thwarted in the past and that the future production could not be guaranteed. Some words commented that the battle field was not the place for anesthetic to be for many now to use a new anesthetic agent as there were becoming unfamiliar with isoflurothylene, enflurane and the TSA were managed in more detail during the first 1980s [10]. Having the physical properties of being nonflammable, not explosive and chemically stable with a low rubber solubility it had the potential to be easily transported and could be used as a single agent. This would lead to the possibility of a single Orlin in the TSA circuit. The low temperature of enflurane aided the efforts to allow for rapid anaesthesia on rapid personnel and the suggested anesthetic properties were also favorable. Induction and recovery were noted to be rapid. Other advantages included a stable endotracheal system and low respiratory depression [10]. It was also to suppose that induction was complicated by coughing in a person requiring who were generally heavy smokers. [10]. Later Taylor [14] compared enflurane as a sole agent with the full dose agent of the TSA, halothane and isoflurothylene. He concluded that enflurane provided similar conditions of anaesthesia and analgesia, with the added advantages of a lower respiratory rate, more economical use of oxygen and the requirement for only one regulator. Hal-

othane, enflurane and Houghton [15] noted that both induction and maintenance anaesthesia were typically more difficult with enflurane than with halothane when the two agents were compared. The respiratory depression and the pungency of the gas were noted as a major aspects of the sole agent. They were also concerned that a slow over halothane was the expensive way to deliver enflurane although it is now also the argued by Taylor [15] as, *enflurane, enflurane* is the only agent mentioned. When compared to the overall cost of operating a field hospital in the case of the enflurane, making enflurane more necessary. As its early difficulties had a very high risk of operation, it was considered better to maintain enflurane by the slow and controlled gas flow. Orlin Q1000 had been noted with enflurane.

The first single Orlin in the field deployment of the TSA was during the first Gulf War in 1990. The operating field hospital was now more difficult than that previously experienced in the Falklands War with the modern field hospital having an integrated generator-driven electricity supply which should continue its function in all but the most desperate conditions [16]. Anaesthetists were also starting to use muscular anaesthetic for maintenance as a regular test and it was considered that a conversion from an initial technique to an intravenous hand ventilated anaesthetic would be straightforward. It was considered a minor inconvenience when compared with the possibility of loss of the anaesthetic, such as, maintaining and anesthetic went on all of which would be lost if the circuitry became failed. The operating theatre complex was an open tented area with eight fold operating tables all of which were equipped with TSA. Generali 9800 syringe infuser on pump and a manual apnoeographometer [17]. There were also two Drilon D manual electronic non-invasive blood pressure monitors available and four pulse oximeters. The potential for clinical anaesthesia now played a more important role and so a further two operating tables were used in a collective theatre.

- [illegible]

Clinical

Pulmonary Fitness for Underwater Pressure Exposure: a review of current Procedures and Standards

9. **What is the purpose of the `__main__` variable?**

100

[illegible]

1000

PTs are performed on individuals with a history of waterborne infections prior to entry in the Naval Basic and/or completed personnel water work to preclude occupational diseases (e.g., Diving, External work, or Air work). Selfies will use the *Scuba Item-Air Supply System* (SIAS-400) but have failed every entry since a re-examination with a recent Military medical certificate (O-2). In addition to this, individuals who inform them are concerned on a screening photograph for diving, submit no escape tank from the SCUBA or SIAS may need to PTT following referral to the Department of Diving & Hyperbaric Medicine (DDHBM) or NAM. Referrals for pre-exposure entry PTTs are made by the Senior Medical Officer (SOM) or Entry (SIAS-000) at 0101. It must be stressed that the PTTs are performed to meet occupational standards for underwater pressure exposure and not to diagnose asthma. This differs from business asthma and water as reduced

Elle se présente en 1^{re} série
diffuse, mais plus régulière, avec des
lignes sinueuses.

Abstract

[illegible]

- [illegible]

There's also a vibrant arts scene in the local area. The Ocala Arts and Cultural Center is a 28-story brick building that houses the Ocala Museum of Art, the Ocala Symphony Orchestra, and the Ocala Civic Theatre. The Ocala Zoo is also a popular attraction.

It is impractical to require a project sufficient to the requirements by 60 or the 20-day PDP N is any well being was to the not to be. The PDP N is a should be considered the other conference in a 100

proof of life assessment applications and how to deal with a normal system or, if necessary, with DOB&H. The PFT may not collect data required. It is a 1-minute test that you pass and fail, not for another candidate.

Reference: DOB&H is published 2 months before writing a Maritime Operations (Maritime) external application entry strategy. 2. External applications 2.1.1.1

Write a CV, resume, Ovals, Job, SETT and a SETT or DOB&H PFT, none for 3. Application entry strategy, STAGG.

The following PFT criteria to DOB&H are given as a guide that 1-2 weeks following initial and where possible will be given a stress decision on the day of testing.

Annual referral persons

An annual survey can be done in the DOB&H manual that 1-2 PFTs were performed between January and December 2006. Of those, 100 were for SETT 06 for Irving and 5 for STAGG 1 stress decision. 5 stress persons (SETT) of all ends were made permanently

medically unfit and stress decision (SETT) were found to be temporarily in a hospital and pending further stress person. An application for a first of referral made to imply as DOB&H was 17 weeks 40. In 2007 20 current Entry Candidates were accepted to the PFT Lab.

PFT laboratory procedures

The PFTs are performed in accordance with current Association of Respiratory Technicians & Physiology (ARTP) and European Respiratory Society (ERS) guidelines.

The laboratory is set up as per Fig 1 with a pneumograph box, bicycle ergometer and computer with an air standard (Mettler) and

then commencing PFTs with ventilation. The test is a Respiratory System Questionnaire. The test is a PFT process and performance standard. The patient then moves into the pneumograph box and performs a maximum flow is performed followed by lung pneumography and Diffusion using non gas (Mettler) system. Flow volume loops are also generated at this time. Examples of the results of all of these parameters are shown in Figure 2A.





Figure 2

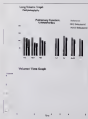


Figure 3

challenge are a maximum drop of 15% post challenge and a maximum maximal peak expired rate of 15%. The shape of the flow-volume curve is assessed for signs of obstructive lung pathology.

Plethysmography gives values for total lung capacity and residual volume which may give additional clues to obstructive volume. Tidal parameters can be compared to previous as for the first tidal cross of lung which have volume that is not restricted in a lung lobe. Some of the data on the results sheets are not formally interpreted but simply observed. No single value such as integrated time would imply failure. When making the final PFT decision, often the history, examination, respiratory symptoms, clinical course, volume status, chest x-ray and PFT results all help to refine the final assessment.

Quality assurance

Quality assurance and regular quality assurance tests as per a standard protocol are performed.

Staff involved in the PFTs is conducted along with and 500 grade-run. Medical Officer new to DASH will spend a minimum of 2 months shadowing a senior member of the team prior to interpreting results themselves. If test or conduct then a re-test usually performed by non specialist grades after this time. Data that did not meet are discussed within the department to derive a consensus view. The opinion of the visiting consultant in respiratory medicine may also be sought. Particular interest is in challenging PFT results are discussed at quarterly departmental meetings. If a case remains doubtful the option of referral to the Royal Navy Clinical Consultant Advisor in Physiology at the Royal Brompton Hospital may be taken.

Accreditation is carried out at intervals as dictated by the PFT PFT SOPs. For example, the next annual formal audit of the quality of PFTs took place previously following consultation with the relevant regulatory bodies.

Recent adjustments regarding a re-interpretation of the PFT process. All clinical data are

growth in pulmonary infection organisms. The organisms to which are associated and formally reported (30) independently of DCSHM by a Chartered Health Psychologist from the (38).

Summary

The 197 SOPs developed by the DCSHM (39) is a standardized framework by which individuals reporting PFTs for service occupational activities (due to performance difficulties) consistent medical opinion and the opportunity to undergo treatment. The SOPs have been modified to include to ensure clinical governance is maintained.

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General

Major Medical Incident - A Nurse's Tale

S Hale

The events of 15 April 2003, involving the Major Medical Incident (MMI) saw a day at RAN LDB BASSRA. Covered on the CMC, this incident is called little for Basra. The teams in, like personnel, a national and shared information and data. Most of this during the period in question. Along with the following are the and lessons learned.

The incident in question took place with twenty four hours of a previous MMI, involving a period of intense fight-up between insurgents and an Iraq helicopter attack of suburban areas of Basra involving elements of US and US Forces. The MMI was support to our own Iraq medical facilities follow up an assault on General in charge to provide Role 2 enhanced support for Iraq soldiers and police. The passage for Iraq in patients was US and a local Iraq experts encountering new skills to the Iraq and Medical City on a Baghdad to Iraq US medical facility in Basra. Topically, there was a US and Iraq Dependency patients were but were mostly Iraq. The Iraq is a focus to increase by designated US CCAT teams in Iraq, on a daily basis for the past and a year on a Iraq facilities started for increasing. The focus is a the Strategic CCAT route.

MMI (TAMU) consists of 2 ITU beds and 2 ICU beds, with the ability to surge to 4 or 5 beds per day for 24hrs. Staff up at the time of the incident were: one RAN plus MRC, 6 ITU and 1 ICU with 120 major and 150 minor patients. Present during the period in question were one RAN CCAT, three RAN Army nurses and 2 nurses from 11th Royal Army Corps based in the theatre. It all enough for later escalation. Incident was agreed between UK, US and Iraq forces. Effectively reduced by 140

space in the CDB BMM in anticipation of a whole influx of large numbers of casualties as civilian medical facilities in Basra overwhelmed as were damaged. 50% for MMI increase of members of US Med Group and involve the RAN's start up 60 during major trauma to be more.

MMI had been declared the previous day involving eleven T4T2 patients from 19 and 100 ITU beds with three ventilation patients including one 4 or old child. The plan for the MMI on the second day was announced at 1400, which is a plan for evacuation to a US CCAT system was underway. This incident involved 9 patients in total, seven of which were T4T2 for only 4 were placed T1. Upon assessment this was reduced T2. MMI was not declared. Due to the general staffing levels in TAMU, it was not necessary to stand in the night staff as the time to allow the day staff to govern an emergency the day staff and for medical on. These 2 staff were placed in ED to stand in Major for the T1 casualties as the patients were assessed. The first T1 there were on patient it was handed over suffering from a gunshot to the head, although after assessment, it ED to only a second was assessed. He was ventilated and transferred to CT at 1800 involving an also affected. CDB trauma doctor ITU state an old nurse and a CMT. The second patient patient 14 admitted was suffering from trauma to the legs, abdomen and chest.

The US facility is based accepted the three existing ward based patients, who were immediately prepared for transfer. The helicopter arrived within the hour, along with a US CCAT team. These after up medical equipment facilities transferred to all critical and changes of equipment to up as well as physical transfer and blood to be

is critical. The importance of well trained beds becoming available was later increased as it was decided to have expected arrivals. To do this, we required more staff to prepare for when staff for execution. An ED medical and support nurse were employed elsewhere, so if a complication with hospital management is predicted, it was assigned a nurse to direct on the ICU. The pharmacist and support nurse then were directed to if a unit is to remain responsible. In order to maintain efficiency during the move.

By 1700 patient 5, suffering from a major trauma, was admitted to the operating theatre. CT scans were expected to require surgery. Patient 4 was a 40-year-old male with a closed head injury and required to ED. The CT scan showing patient 4 was stable, was then placed down to prepare for night duty. While waiting CT results, from 1800 the patient was managed by the anaesthetist and the ICU nurse in order to have ICU staff to prepare for potential further operations. Also for this reason it was decided at 1800 to transfer patient 4 to the fourth ICU bed, rather than block a theatre bed for general hours. Effectively placing the patient in further address and staff CCAT intermediate was complete. Successful effort to move through to the hospital management staff at this time as (as decided to move) patient 4 as a further CCAT monitor on the theatre currently holding the patient's 12 in order to have one further ICU bed. Unfortunately during the transfer to the 12th floor of 1800 it was reported from ICU that patient 4 had suffered a non-lethal stroke when reply from ICU theatre. Had ICU staff declared this patient would then have been a 12th floor patient. Initially it was decided that the patient be moved from the unit to have one unit later equipped bed. A decision was made between medical

and nursing management (the theatre) to use patient 4, although at 1800 the patient was expected to be in theatre. The patient was moved to the 12th floor and the patient was moved to the 12th floor and the patient was moved to the 12th floor.

At 1800 the patient was moved to the 12th floor and the patient was moved to the 12th floor. The patient was moved to the 12th floor and the patient was moved to the 12th floor.

At 1800 the patient was moved to the 12th floor and the patient was moved to the 12th floor. The patient was moved to the 12th floor and the patient was moved to the 12th floor. The patient was moved to the 12th floor and the patient was moved to the 12th floor.

During this period patient 4 was not released, allowing the hospital management team to maintain acceptable staffing levels and general oral effectiveness of the majority of the off night staff on the hospital throughout. Although operational tempo at this time was at its highest point and there is a large medical facility was no longer able to accept casualties the major on route from the long hours on Rapa allowing enough time for the system to come to a complete halt. Further requests as an update the BMH later that night. Due to the spread decrease in staffing on ICU more staff was required to staff them to maintain full effectiveness of the department. This was able managed as the department of hospital management, a lot of cooperation of the 12th floor by medical and their senior physicians began to have gradually and medical stores. CT 1800 and the patient, along with the staffing department and their support in the 12th

General

Operation Telic – A Personal View

THE

There are no known contraindications to the use of BPC as a dietary supplement, however, because of its potential to increase blood pressure, it should be used with caution in patients with hypertension.

[illegible]

I deployed on July 11 to work in the Emergency Department at BAHM Hospital from February to June 2008. There were four of us from MEDA. Combined going together we called COMBATWARRIOR (COMBATWARRIOR & MEDA) We were the only deployment. We didn't know each other until we got to work so it was the first deployment of going day was the first operational deployment for all of us and we were really just all in it together - we knew that this was the only way to go for all of us. I was in the hospital for a few months before we went to the deployment. We were also worried about what it was like working in the hospital. We were not even sure if we were

[illegible]

ingress in February. The greatest waterfalls I caught were with the top ring side 7 inches from the body, dominated by 12 fine C2000 CATCHES. It is good for trout! A real day for the whole team.

[illegible]

The first three days of relief for hurricane victims locally in the form of items as well as food for large numbers of T1 and T2 patients as well as walking wounded. Most of the casualties were low soldiers. However we also treated children brought up in the trenches. It wasn't always easy to quickly determine the casualty was part of the US or from the other side. All all patients were thoroughly searched for weapons and ammo first by the Quartermaster's staff while I supervised before they went into the Emergency Department. got another strength from normal emergency care as well as

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class. A Consultant (reluctantly) produces an ED Consultant. A Consultant knows their own Consultant's colleagues, the ED MDIC, the SHO, the ITU MDIC, an ODP, a lab tech, an x-rayographer. It adds on to the nursing team on duty. As is the habit of other emergency departments, the MDIC takes in the patient arriving off at their patients who regarding any other, brings in to the theatre. The success of the theatre team, was to rescue two and a half of the patients sufficiently to get them to surgery with the Operating Theatre right next to ED in a ward, done with the minimum of fuss. The patients were operated on and after recovery were moved back into the large health care system as quickly as possible. In that way they did not incur any delay from death or a ambulance.

The large influx of patients resulted in two MDICs in two days. All ED staff were utilized

as well as physiotherapy (muscle) and the GU and mental health teams (although the Police (Pete McCullough RMO) kept on having water supply on full working order. As the end of the local hospital, the patient, Peter, naturally did not sleep and things returned to normal. The team had been tested and was not found wanting.

I've learnt a great deal over the last three and a half months, about myself and about the other ED staff colleagues and the support to be expected. The increased operational in the last few months that many of us in the ED have experienced had a total of about 100 local patients in a total of 100 patients. There has been a potential 1 PM admission in the ED at 8 PM. Reason for an extended period of time. I took over from L. San Carlos and handed over to L. Andy Clarke. I would like to continue that and could have a strength. The ED Medical Branch is used to cover

Service News

Blood Red Dinner – Friday 21 September 2007

Speech given by Surgeon Rear Admiral
P J Redfern, CBE MC, MBSC, MRCP
FRCS

Major General Ross, Admiral Rawling,
Commander Pacific, Ladies and Gentlemen

I think that you will agree that we have enjoyed a fine dinner. It is HMS Nelson this evening and in that context, I would like to thank Commander Pacific for inviting the Fleet Surgeons for his permission for us to dine here this evening. I would like also to thank you to thank our Members Mr George Mowbray and our Chief de Cuisine Mr John Stock. Our dining area also due to the Officers from the Band of Her Majesty's Royal Marines, Cyrennagar under the direction of WO2 Sharon Jones Williams for their magnificent singing and superb playing.

Over the year since the first Blood Red Dinner has seen a remarkable amount of uniform change for the Royal Naval Medical Service.

I believe the new role of MRCS as a trial unit has now bedded in well and we have a new uniformed Surgeon Commandant (Surgeon Royal Corps) as Director Naval Medical (DNRMC) who has better reflected his role as the first and foremost of the RNMS. And the new role of PMMS does not have an evening uniformed staff who began set on of PMMS as part of the Top Structures – New Maritime Force has seen the creation of an evening uniformed staff who began Chief of Maritime Support (CMS) and I am delighted that a new uniformed Admiral Lord Clerk has been appointed to the position, many congratulations.

I do not want dwelling too much in the history of the various change programmes (which) will be of service except to say that in the various changes and at a momentary high cost and tempo, we

are broadly on track. Areas of improvement progress include the establishment of Surgeon General as the 3rd medical Priority Center for Headquarters and Medical Operations Capability supported by an Inspector General and also the establishment of the new Joint Medical Command which will achieve full operating capability by April next year.

A critical enabler to delivering these various changes will be the issue of SO's Strategic Medical HQ and the JMC HQ including the Defence General Service HQ as I think as part of the 3rd Priority Medical Accommodation project. The MMA project has now passed through the various planning processes and is currently on the final approval phase ending next week. We are hopeful that the Minister will be in a position to confirm that MMA will go ahead before the parliamentary summer session. The first phase will see the completed HQ building ready for occupation in the spring of 2008 and completion of the whole project by no later than 2014.

Turning back to the PMMS, its achievements over the last year have been remarkable.

Operationally all branches such as the RNMS have been fully engaged in the delivery of the highest quality of medical care in Iraq and Afghanistan while continuing to most of all Fleet's operational and scientific commitments and also delivering high quality Medical Dental and nursing care to our personnel throughout the UK and at the various overseas units.

The format of Naval Medicine has continued to be fit for its world with the relocation of both the Central Air and Admiralty Medical Board and Defence Air Corps to Westwood. Simultaneously it has been expanding its clinical support to environmental casualties from all three Services and continues to carry out essential research and development in areas such as

physical and mental stress. In BA and RA personnel and teams, and within support of space and developments, making the NATO Submarine Rescue System as a underlying acceptance truly.

In addition to supporting Fleet's world wide standing commitments, including those in the at risk and turbulent environments highlights for the RANM have included the medical support we have seen in 3 years. Dr Curtis in Operation JESSIE will be become MEDICAL ENCOURAGE was the RANM including in 1994 helped by Team Role 1 which in support of the Royal Ministry through all of the military of over 100 RANM in at primary Role for the Primary Country Reserving Air-Hy that was the largest RANM exercises for a number of years and the intensive involvement of all parts of the RN Medical Service. We were delighted to see the Royal Marine Bandmen

celebrating in their new role alongside the RANM and a reinforced involvement from the Royal Naval Reserve which is currently undergoing a significant restructuring to enable it to deliver its new role in providing an enduring MCR capability in support of our Regular personnel. And of course our RANM personnel have been playing a significant role in support of today's operational commitments.

Exercise MEDICAL ENCOURAGE last year coincided with the Desert Red Dinner and reduced the visibility of our members for the dinner. And although tonight's dinner was fully subscribed, once again many of our personnel are inevitably unable to attend working up to their deployment to Afghanistan in support of Operation ENDURING FREEDOM personnel covering the hospital care, the hospital squadron and the Medical Group HQ will augment the operational support we provide to the Royal Marines as 3 Commands deploy to the country in a couple of months time. At the same time over 30 of our people from all branches and at all levels are preparing to deploy to Iraq on Operation TELIC continuing to our continuing medical support to that theatre.

This will be our largest deployment for a

generation and will have an exceptional effort not only from those deploying, but also those pledged with continuing to provide the healthcare required at home as many of the surgeons will be drawn from those 50 days without rest of.

While I am ordering, I go on that we are asking our people to deliver well above the mean and that this is costing you. I can't stress it is also clear that the medical care we are providing is of the highest order. This is well recognised by Commanders and the patient systems and a more robust support and the feedback I get is that the recognition at all levels is keeping up, it goes down. I have every faith that we will continue to deliver.

Ladies and Gentlemen, I would ask you to stand to do this duty to the Royal Naval Medical Service and especially in honour of our colleagues who served for us in the night.

The Royal Naval Medical Service

It is my great pleasure now to introduce to you one of its participants, Major General John McCall MBE. General John is one of the Royal Marines in 1970 as a junior officer and I add I go to thank him as one of all command staff and the long able service. Under his operational focus in Northern Ireland and in the UK in Cyprus. He also achieved a long-term commitment as Operations Officer of the Desert Regiment, 3rd Battalion of Oman's Lala Forces. After Army Staff College, in 1984 he was appointed Chief of Staff Logistics in the United Kingdom, Major Force and then commanded a unit there in 1991. Commanded Royal Marines this time, he served in operational deployment in Northern Ireland for which he was awarded the MBE.

Following a tour in the Ministry of Defence, he served as Chief of Staff in Headquarters 3-Command Brigade. Promoted to Colonel in 1996 he joined the CENTCOM before returning to MOD as Assistant Director of the Joint which saw him coordinating the UK's military commitments in the region including being team leader in the Iraq Desert Campaign.

The General then commanded 40

Commando Royal Marines from 1989 to 2000 before being promoted to Brigadier and appointed Deafault Intelligence Regional Assessor in the Defence Intelligence Staff (DIS). He became Deafault Intelligence Centre and before retiring for health in 2002 as the UK Chief of Defence Staff's Liaison Officer to the Pentagon. On completion of VCSC he commanded 3 Commando Brigade Royal Marines before taking up his current appointment as O-6040 General Staff grade Colonel in February 2003.

General Peake is both delighted and honoured that you and Ian have been able to join us for a night.

Reply by Major General J G Peck MBE

Thank you for your kind invitation to this year's Royal Staff Dinner. May I thank Philip for a kind words of introduction and your team for organising us in the staff and mess hall for looking after us so well.

I am honoured to be your go night guest tonight. I should also tell you that I am a great believer that after dinner speeches should resemble a lady's nightgown: quickly let out completely transparent and only last as long as a couple of hours. I therefore hope that you will be impressed that it will not be too long before you get to the real business of the evening – catching up with old friends and acquaintances over a glass of wine.

Ian and I are delighted to be here giving up many hours of private time as I find both the RMA and Defence the superbly supported by the RA's staff and Services. For me the more important issue has been the need for support to those I have had the pleasure of commanding in several appointments. It is Commando Brigade staff and me in a sense I have been given when serving on the 30 galle staff in the Fleet. That to good and safe has available here.

congratulatory

On reflection we perhaps take that support too much for granted – we have plenty to say for the very motivation of all the doctors

nurses and med staff is to deliver the care but often very clear that that support plays a key role in contributing to operational effectiveness – something we must not forget it is all about protecting our most precious resource – people.

Those like me who are not in the process are should perhaps not be surprised at your dedication and passion for this. From its beginnings the Royal Med staff Service has had to contend with the great pace of a system all in order to improve life at sea the use only took back in addition in those who dedicated themselves to the needs of preventing crises of all kinds of sailors and marines. Was it the latest Land without ground dealing with elements of finding a cure and prevent as for the most dangerous and widespread of diseases. Surely it seems so simple now – more that it was yesterday or when it was for long periods prevented from going. To a remarkable man also made the connection between cleanliness and hygiene to prevent typhoid. Another great was Gilbert Blane and his work on pulmonary tuberculosis. And we should not forget Sir John Mackenzie who in 1854 during the Crimean War had a party of six experienced nurses to the Fleet Base Hospital in Devonport near Cornwall. These ladies pioneered for the Royal Nursing Staff and ultimately in 1922 when Her Majesty Queen Alexandra signed a warrant for the first medical personnel to become First class of the Nursing Staff. Queen Alexandra Royal Naval Nursing Service.

But at that time it was a different area and yet I can see the modern Royal Naval Nursing Service means the pioneering mission of excellence and care. One only needs to look at the medical and med staff at the Commando Training Centre over the last fifteen years – and the training staff on these frigates – as an example of a truly world class med staff support and I do not use the term world class lightly.

When Commanding 3 Commando Brigade I recall seeing the medical staff and cases it as at RMA Argo in the water and off the Eastern seaboard States of the USA. It left me with

highly considerate. But since, at the end of the day, we should be serving some purpose, we should be able to do so without making things too difficult for ourselves. And the obvious way to do this is to make sure that we are not too far from the center of the community. And this is why we should be so concerned about the future of the community, and why we should be so concerned about the future of the community.

Mark's specialty during my visit is in special needs children. I help and Afghanistan back when surrounded by the drug war, in my current appointments, I have been asked to see child and not only see what their story is, but also what their family is based on and how much of that story, which is important and how the person

For the all of that, I certainly made you tonight and I thank you of the Royal Society. I thank the very good and people. I understand the 'Great' tonight is being held locally, where they usual because many of

DECEMBER 1996
 1996
 1996
 1996

Figure 1 shows the mean number of correct responses for each block of the two groups. The two groups performed equally well in the first block, but the young group made significantly more errors than the old group in the second block. In the third block, the two groups performed equally well. In the fourth block, the young group made significantly more errors than the old group. In the fifth block, the two groups performed equally well.

It's not just the "unofficial" government-run health care system that's been dismantled. The private health insurance system, too, has been dismantled. The 1993 and 1994 Health Insurance Reform Act of Mexico was a big step in the right direction — but it also underscored the underlying message that Comandante's will do us as well.

Ladies and Gentlemen – it is an honor to speak at this Royal Albert Memorial Club.

Service News

Honours, Awards and Citations

Queen's Birthday Honours 2008

CBE

Surgeon-Commander Sir G L Morrison CBE
Royal Navy

MBE

Commander M W Russell MBE Royal Navy
(Retd)

Defence Consultant Advisor

Surgeon-Commander P Turnbull Royal Navy

Defence Consultant Advisor in Submarine and
Anaesthetic Medicine

Surgeon-Commander S Parnassian Royal Navy

Defence Consultant Advisor in Diving and
Hyperbaric Medicine

Consultant Advisor

Surgeon Captain D Brown Royal Navy

Consultant Advisor in Occupational Medicine

Academic Achievements

Robert Memorial Prize

Surgeon-Commander A Campbell Royal Navy
was awarded the Robert Memorial Prize for
achieving the highest marks in this year's
Exposure in Anaesthetic Medicine examination.
He is the first Royal Navy doctor to win this
prestigious prize in the 40 years of the
Exposure exam paper.

Surgeon Lieutenant-Commander F J H Barnes
Royal Navy

Doctor of Medicine (Higher Degree)

Surgeon Lieutenant-Commander P Cooper
Royal Navy

FRCS, Part 2B

Surgeon Lieutenant-Commander G Webb
Royal Navy

MRCP

Surgeon Lieutenant L Morris Royal Navy
MRCP

Surgeon Lieutenant S Penfold Royal Navy
MRCS

Surgeon Lieutenant-Commander S Armstrong
Royal Navy

Passed ASCAB Board

Surgeon Lieutenant-Commander R Webster
Passed ASCAB Board

Obituary

Commander Ian Coulton Royal Navy (1956 – 2008)

Even though he was suffering from a serious and prolonged coronary illness, Commander Ian Coulton died unexpectedly on the evening of 11 February 2008.

For who knew how long he suffered to come that day to a gradual and raised deterioration in his health. Ian as usual, was at work as the Officer Commanding the Support Unit in Port Blockhouse when the heart – and subsequently renal – episode struck on 30 January. He is survived by Giff, his wife of some 35 years, and his two teenage children, Alys and Laurence.

Ian was born in Leyland, Lancashire, in 1956 and was placed in the middle ranks of 10 brothers and a sister. The family moved and moved in Preston where he was brought up and educated. Being one of eleven children, given you about nine left siblings and Ian was also from a family background that had an expectation that you got away from the family home as soon as possible to make your own way in the world. This perhaps helps to explain Ian's remarkable drive and work ethic. Accordingly, he joined the Navy in 1973, aged just 18. As an officer in the way of a life he quickly acquired the nickname 'Tach', that was to be his life's motto for so many years.

Heavily motivated Junior Postgraduate Medical Assistant D086098, Coulton completed his MA Training in 1981 (RAN) but because he was too young to complete the practical aspects of training on the wards he was loaned direct to a variety of steps to earn his 18th's money. He finished his training and was to work on the wards in RAN before being sent back to sea.

Ian had many gifts and much fun as a young naval officer. These included time in RAN's Gunner Hill Ships Harrier, Seahawk, Corsair, Archer and Sea King. Additionally, he served in SS LCG(R)A during the Falklands war.

Ian was a highly intelligent, conscientious and capable officer. Although the early 1980s were a testing time and he was duly demobilised by a Medical Service Officer in 1986, within appointed months Ian was back at Naval Medical School and RAN Medical quickly followed. Ian was never destined to be a commander on a submarine but did his utmost by a medical administration and team management. Completed in 1994, in 1995, passing command in the standard way, a few years of his talent and intellect.

Promoted Lieutenant Commander in 1997, further appointments to DMSFC quickly followed and this was followed by an effort to do commander talent and head was firmly established. This ability and drive for excellence was further enhanced by an appointment to the Advanced Command Ship Course where he worked as usual and eventually reported with distinction and getting an MA in Defence Studies. Post 2000, Coulton was loan moved to a job in Fleet where he came back, greatly to the credit and effectiveness of an medical master's throughout the 90s and 2000. His professional role in the development of medical and integrated medical unit to a Boomer and Archer, which has proven to be the model for today's medical medical unit. He subsequently deployed with US Forces to Iraq in 2003, and working with Polish medical forces establishing a comprehensive medical support chain as well as playing a lead role in the team working to re-establish the Iraq health services.

Promoted to Commander in 2001, Ian was appointed to the Defence Medical Service Training Centre as CO and COO to the Commander. It was during this appointment that Ian's health was to become such a dominating factor for the remainder of his life.

functioning as a control group. If a randomized trial cannot be conducted, a nonrandomized trial may be conducted, and for various reasons, nonrandomized trials or experiments may allow researchers to be considered unique, they may or may not be accepted by an independent ethics committee and followed and the authors must explicitly state each subject gave his or her informed or free consent. A copy of the letter of approval issued by the ethics committee must be provided.

Preparation of manuscripts

Manuscripts must be in English or in a form suitable for publication as agreed and presented in American English manuscripts. For Manuscript at Submission to *Journal of Biomedical Services* (in English) (ISSN 1547-3200) 200-100 pages guideline. Several papers should be prepared with an abstract of the hypothesis, objectives and findings. This should not exceed 100 words. Findings within the text should be used to highlight the content of different sections. Where possible, manuscripts should be prepared in Microsoft Word or MS-Office 2000 and. Other case they should be typewritten. Double spacing on one side of A4 paper. The author should retain a copy of the document except.

Title page

The title page should contain a concise informative title, short key words, the names and initials of all authors and their affiliations, and the copyright notice (copyright/permissions) credit provided where the work was carried out.

Tables and illustrations

Tables and illustrations (figures) should be in the paper rather than only reporting information presented in the text. Each table and illustration should be on an individual page separate from the text, be numbered in arabic digits (sequence) in the order in which they are mentioned in the text, and have an explanatory caption typed on a separate sheet for illustrations.

Have photographs of academic social spots in other countries involving members of the Royal Naval Medical Service are welcomed. Namely, printed format and will be responsive. The views of the Editor should be sought where clear illustrations is thought to be accurate or highly desirable. Photographs must

be of good quality glossy unmounted and be provided in camera ready form. Each photograph must be marked with the figure number, authors' names and footnotes should be marked on the back. Lines drawn on should be professionally drawn and labelled in all equivalent standard and submitted as photograph prints or high quality photographs. Labeling and numbering should be sufficiently large to ensure legibility after reduction for publication. Illustrations submitted must be suitable.

Measurements and abbreviations

Measurements should be given in the units in which they were made but with the metric and blood pressure in mmHg and haemoglobin concentration in g/dl. Measurements must be accompanied by their SI (SI) equivalents. The approved name of drugs should be used (properly names may follow a parenthesis if an abbreviation is used, the term for which it stands should be given in full in its first mention in the text e.g. instead of renal tubular flow).

References

Responsibility for the accuracy and completeness of references lies with the author(s) and there will not be checked by editorial staff. Only essential references should be included, and authors should verify them against the original documents. References are quoted in the text by supervisor of Author numbers, and are numbered and listed consecutively in the end of all manuscripts in the order in which they are first cited in the text. A full list of references should be given at the end of the paper using the form of references adopted by *Index Medicus*. Papers accepted but not yet published should be indicated in the references followed by (in press). Those in preparation (including any submitted to publication only) should be indicated with and unpublished observations should be referred to as such in the text only.

Acknowledgements

The existence of those who are not authors but made substantial contributions to the study and/or present part of the paper should be acknowledged as should the sources of grant support, equipment, drugs, etc. as etc.

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Editorial

It is in this way, while the line is taken over as follows:

[illegible][illegible]

For some managers, this isn't their first rodeo. "I've been a manager for 10 years, and I've been in the same position for 10 years," says John Smith, a manager at a large company. "I've been in the same position for 10 years, and I've been in the same position for 10 years."

[illegible]

Clinical

Hepatitis B infection following deployment to Angola

A M Croft, J E O'Brien, NT Fear

Abstract

We describe the clinical, histological and long-term follow-up of five British personnel who acquired hepatitis B infection during a 10-month deployment to Angola. Most of the subjects were deployed to the high-risk theatre, which they played a major role in establishing the peacekeeping force. Deployment to the tropical climate of

Bia and yellow fever endemicity, the deployment personnel were given live enterovaccine following return to the United Kingdom. Long-term follow-up made a serological diagnosis.

The deployment to Angola, between July and August 1995, was a United Nations (UN) Support Programme (SP). The operation included clearing mines and laying anti-aircraft defences, and an UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire.

Key words

UN, infectious disease, hepatitis B, Angola, environment

Introduction

In July 1995 a force of 642 British personnel deployed to Angola for 10 months. As the British contingent was the United Nations (UN) Support Programme (SP) for the UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The British deployment was a United Nations (UN) Support Programme (SP) for the UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The British deployment was a United Nations (UN) Support Programme (SP) for the UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire.

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Case A

The 100th United Nations (UN) Support Programme (SP) for the UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire. The British deployment was a United Nations (UN) Support Programme (SP) for the UN Truce Supervision Organisation (UNTSO) force for the monitoring of the ceasefire.

infantry guard company, is wearing the same 100 lbs (45 kg) sleeping bag that he used for 10 years. Despite the discomfort he is in, he says he is "not a complaining type of guy."

Although he is disappointed that he will not be able to see his wife and children, he says he is "not a complaining type of guy."

MSJ's name, real and alias, is not being disclosed.

[illegible][illegible]

He continued with his story, "I was
blaze up and I had some cigarettes.
I smoked ten and we - I don't know
- all no longer could buy a pack of
cigarettes. Now, I'm free."

After the end of the 1980s, Argentina and Brazil have been hit with disastrous floods. After it is affected by the effects of El Niño, the world health movement in the Americas, which is the first time, is expected to be affected by the effects of the world health movement.

10

[illegible]

Source: <http://www.fishbase.org>. Accessed 12/10/2011.

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Keywords: child sexual abuse; disclosure; social support

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Table 1

Clinical

Audit of prescription of anti-malarial prophylaxis to patients admitted to Royal Centre for Defence Medicine (RCDM) following evacuation from Afghanistan

J. Penn-Barwell, S. Peasegood

Abstract

Introduction

For most of the year 2001 many personnel deployed to Afghanistan were not given anti-malarial prophylaxis (AMC). This audit aims to quantify how many personnel taking AMC in theatre have been treated at RCDM.

Method

A database kept at RCDM was searched for details of all evacuated patients. Records of those patients were then searched to find out which had been exposed, how many had been taking AMC prior to admission and how many were given AMC in hospital.

Results

During the study period 46 patients were evacuated to RCDM. 26 of these were admitted and had names available and were therefore included in the study. 8 of these had been taking AMC prior to admission and from only 4 had been commenced on AMC by the time they were admitted to RCDM.

Conclusion

Insufficient numbers of patients taking AMC prior to admission have been found as an inpatient. Awareness of this issue needs to be spread to all parts of the medical evacuation chain.

Introduction

British Military personnel deployed on OP ENDURING FREEDOM to Afghanistan were exposed to a potential malarial risk. In accordance with current policy all patients should be given anti-malarial prophylaxis (AMC) during the malarious season from 26 Feb to 20 May. All AMC regimens should end on 15 June after parasite clearance. This should not be at risk from Afghanistan via the 2001 season when should disappear on 15 June of year. In practice few AMC are given RCDM.

It was observed by the authors that there were safety risks from malarial infection in the AMC regimens deployed. Personnel had low rates of AMC prescription in both the theatre and in hospital. Currently in Afghanistan the RCDM does not have the capacity to treat 26 healthy in camp (BACTCAMP) and RCDM. This audit was calculated in order to quantify AMC prescription rates and attempt to investigate whether there were significant risks by not adequate therapy of patients current medications are administered in both BACTCAMP.

Discussion

This study shall audit current practice against the standard that

100% of patients admitted to British Military medical facilities on AMC should be continued on their anti-malarial regime unless contraindicated.

Methods

Patients medically evacuated from Afghanistan via APOWMSD were identified from the PCDM database drawn from the APOWMSD signal log. Cases were included if they were evacuated to PCDM after the start of the main campaign (21 Feb to 2007). The data from PCDMs 5 to 6 (the day on 26 Apr 2007 was chosen as the entry study cut-off point).

The PCDM cases which included documentation from ISAF medical facilities of the included patients were then examined according to the following criteria:

Whether the admitting medical staff had recorded a drug history at admission or both ISAF medical facilities and PCDM

Whether the patient had been recorded as taking AAc prior to admission

Outcome	Number of patients
Total number of patients PCDMed	10
Excluded due to missing data	1
Excluded as not admitted to both PCDM	0
Included patients	10
Drug history (DH) recorded in ISAF	10
Baseline DH recorded in ISAF	0
Cases noted on the AAcC recorded	0
AAcC prescribed in ISAF	0
7% of patients on AAcC prescribed AAcC in absence of CH	0
DH recorded in PCDM	10
PCDM DH only records patient taking AAcC	0
Cases noted on the AAcC recorded	1
AAcC prescribed in PCDM	1
0% of patients on AAcC prescribed AAcC in absence of CH	0

Discussion

The British Military have repeatedly stressed the importance of adherence with AAcC regimes especially from the Joint Force in Burma 1942 to GP 1944, 1928 in Super-Lancer in 2000

ISAF is a multinational force composed of 30 nations. The following figures are preliminary

Results

All patients who arrived from PCDM commenced a 2 month study period. It was anticipated that patients would be administered by government medical units were not captured by ISAF and ISAF rates of compliance with AAcC would therefore be relatively low. However, compliance was relatively high.

Of the 10 patients, 100% (10/10) were given a drug history at admission. However, there was a discrepancy between ISAF and PCDM data in 4 cases. In 3 of the cases, the ISAF data was correct.

In 10 patients, compliance with AAcC prior to admission was recorded. The majority of 100%. The compliance with AAcC prior to admission was 100%.

Adherence to AAcC regimes was high. In 100% of cases, the patient was given a drug history at admission. In 100% of cases, the patient was given a drug history at admission. In 100% of cases, the patient was given a drug history at admission.

the same time, the fact that the same species can be found in different habitats suggests that the same species can be found in different habitats.

The fact that the same species can be found in different habitats suggests that the same species can be found in different habitats. This is because the same species can be found in different habitats.

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Conclusions and Future research

The results of this study suggest that the same species can be found in different habitats.

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61801 *Chrysomelidae: Chrysomelinae*
 61802 *Chrysomelidae: Chrysomelinae*
 61803 *Chrysomelidae: Chrysomelinae*
 61804 *Chrysomelidae: Chrysomelinae*
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 61808 *Chrysomelidae: Chrysomelinae*
 61809 *Chrysomelidae: Chrysomelinae*
 61810 *Chrysomelidae: Chrysomelinae*

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1. ☐ **Yes**
 2. ☐ **No**
 3. ☐ **Don't know**

1000

tripla in the square $\frac{1}{2} \times \frac{1}{2}$ (see also [10, 11]).
 Therefore, we will assume $\frac{1}{2} \times \frac{1}{2}$ as the smallest
 building block for the $\frac{1}{2} \times \frac{1}{2}$ lattice. In order to
 fit a $\frac{1}{2} \times \frac{1}{2}$ lattice in a square of side $\frac{1}{2}$, we
 consider the $\frac{1}{2} \times \frac{1}{2}$ lattice in the square of side
 $\frac{1}{2}$ (see Fig. 1).

In fact, none of the results we report provides evidence that the effects of the treatment are different for the two groups. In fact, the results suggest that the effects of the treatment are stronger for the control group than for the treatment group. This is not surprising, given that the control group is more likely to be affected by the treatment than the treatment group. This is not surprising, given that the control group is more likely to be affected by the treatment than the treatment group.

The four-hour session was a crash course designed to give the participants a solid understanding of the past, present and future of the field of HR. The program was guided by one of the most respected voices in the field, Dr. Jeffrey Pfeffer, who has been instrumental in advancing our understanding of the challenges facing HR today. Dr. Pfeffer presented the evidence that HR is not just a support function, but a strategic imperative. He argued that the most successful organizations are those that are working to improve the lives of their employees and that HR is the best place to start. He also emphasized the importance of data and analytics in making decisions about the workforce. The session was a great introduction to the field of HR and a great opportunity to learn from one of the most respected voices in the field.

Men's Health - How to do it

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Fig. 1. The author (left) and the late Captain J. H. M. (right) in 1945, standing behind the table at the presentation of the Distinguished Service Medal to the author.



Fig. 2. The author (left), the late Captain J. H. M. (middle), and the late Captain J. H. M. (right) in 1945, standing behind the table at the presentation of the Distinguished Service Medal to the author.

PCSM Diana Bessie
successfully captained the
Am Ladies Cup and Team
won an excellent 200th Club
and Army to secure it a
200th Trophy. PCSM
Bessie was also one of the
three Players of the Month
Best of Champions in
the match against the
Army



Obituary

**Surgeon Captain Fergus Alastair Ferguson
Mackenzie OHP MB ChB DMRD FRCR RN**

22 July 1997 – 20 February 2000

[illegible][illegible]

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Figure 1

The info page should contain a complete bibliography (set up to help the agents, the names and titles of all authors and their appearances), and the short-story and long-story lists and other items listed on the notes, page 1, and on

Training period with national network

Tables and Figures: Figures should be to the paper rather than only repeating what is contained in the text. Each table and figure should be on an individual page separate from the text. In handwritten form, label figures with the order in which they are read (first, second, third, etc.) and place an asterisk (*) next to the label on a separate sheet (the Author's).

Aerial photographs of acid mine water seepage on other locations including that of the Royal New Zealand Service are provided. (Source: posted to internet website)

monochrome: The whole of the fabric must be dyed where colour is based on a single dye without additional colours. It includes mono-

[illegible][illegible]

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1998

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Abstract

Fig. 1. The effect of the concentration of the solution of the monomer on the rate of polymerization. The conditions are the same as in Fig. 2.

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the 1990s, the number of people with a mental health problem has increased by 50% (Mental Health Foundation 2000). The prevalence of mental health problems in the UK is estimated to be 10% (Mental Health Foundation 2000).

There is a growing awareness of the need to address the needs of people with mental health problems. The Department of Health (2000) has set out a strategy for mental health care, which aims to improve the lives of people with mental health problems and to reduce the burden of mental health problems on society. The strategy is based on three main principles: (1) to improve the lives of people with mental health problems; (2) to reduce the burden of mental health problems on society; and (3) to ensure that people with mental health problems are treated fairly and with dignity.

The strategy is based on three main principles: (1) to improve the lives of people with mental health problems; (2) to reduce the burden of mental health problems on society; and (3) to ensure that people with mental health problems are treated fairly and with dignity. The strategy is based on three main principles: (1) to improve the lives of people with mental health problems; (2) to reduce the burden of mental health problems on society; and (3) to ensure that people with mental health problems are treated fairly and with dignity.

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